

Figures

FIG. 1 is a schematic diagram of a system for providing a user with a personalized view of a document. The system includes a user interface (UI) 100, a document 110, and a processing unit 120. The UI 100 is configured to receive input from the user and to display the document 110. The processing unit 120 is configured to process the document 110 and to provide a personalized view of the document 110 to the UI 100. The personalized view of the document 110 is displayed on the UI 100.

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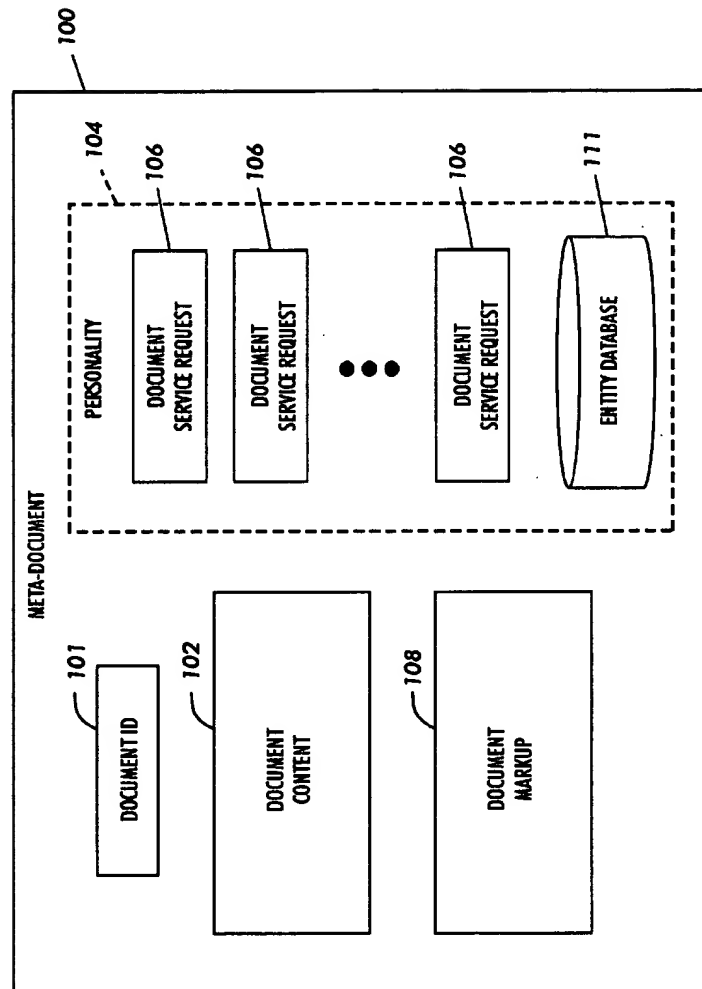


FIG. 1

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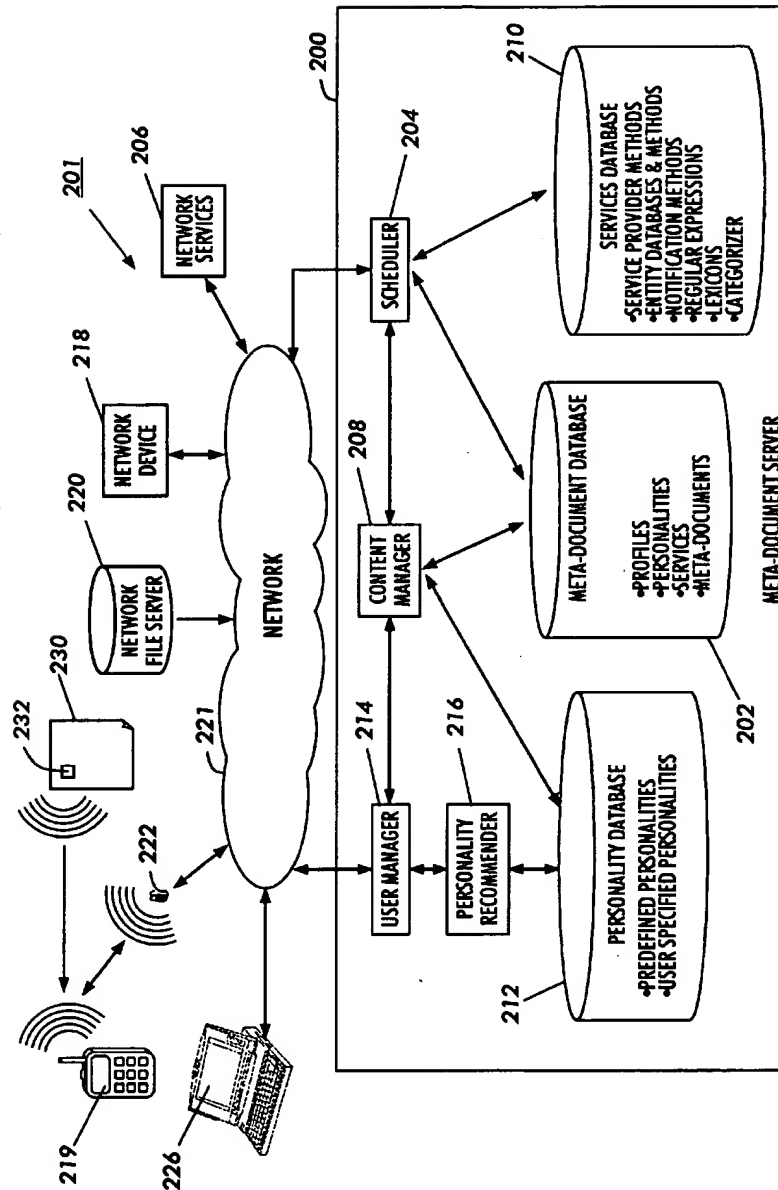


FIG. 2

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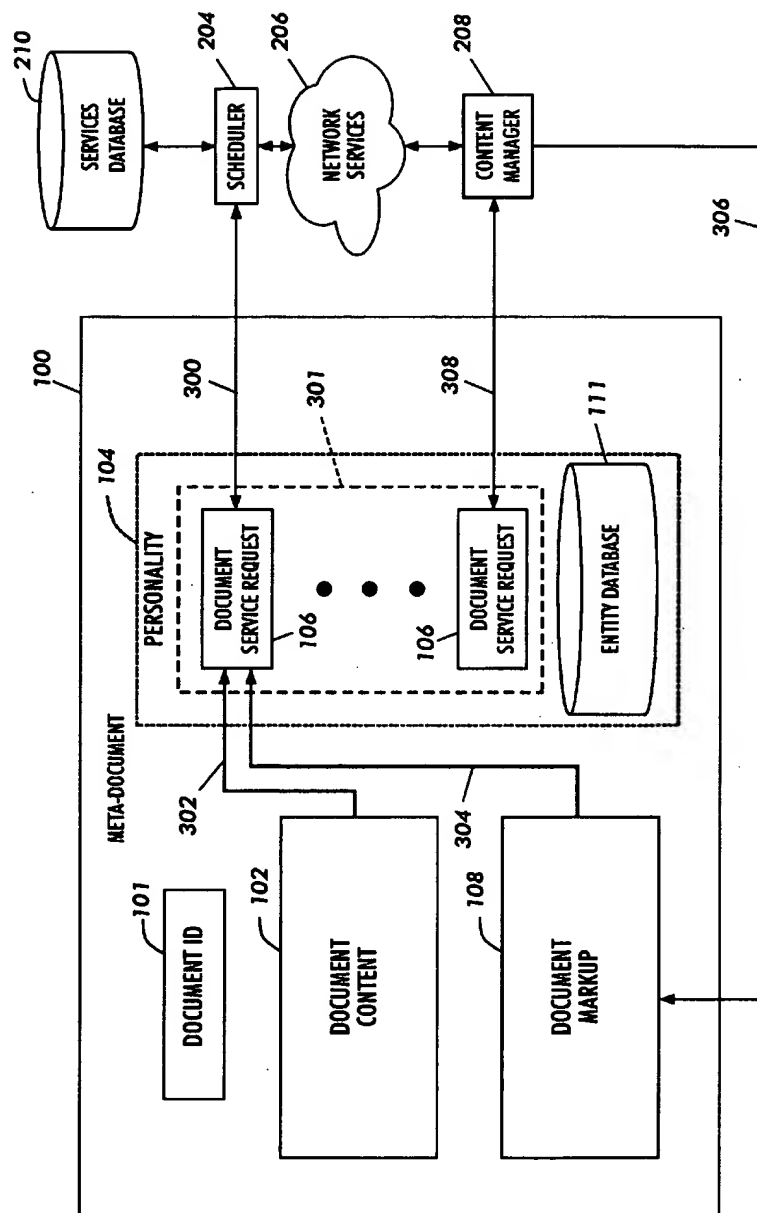


FIG. 3

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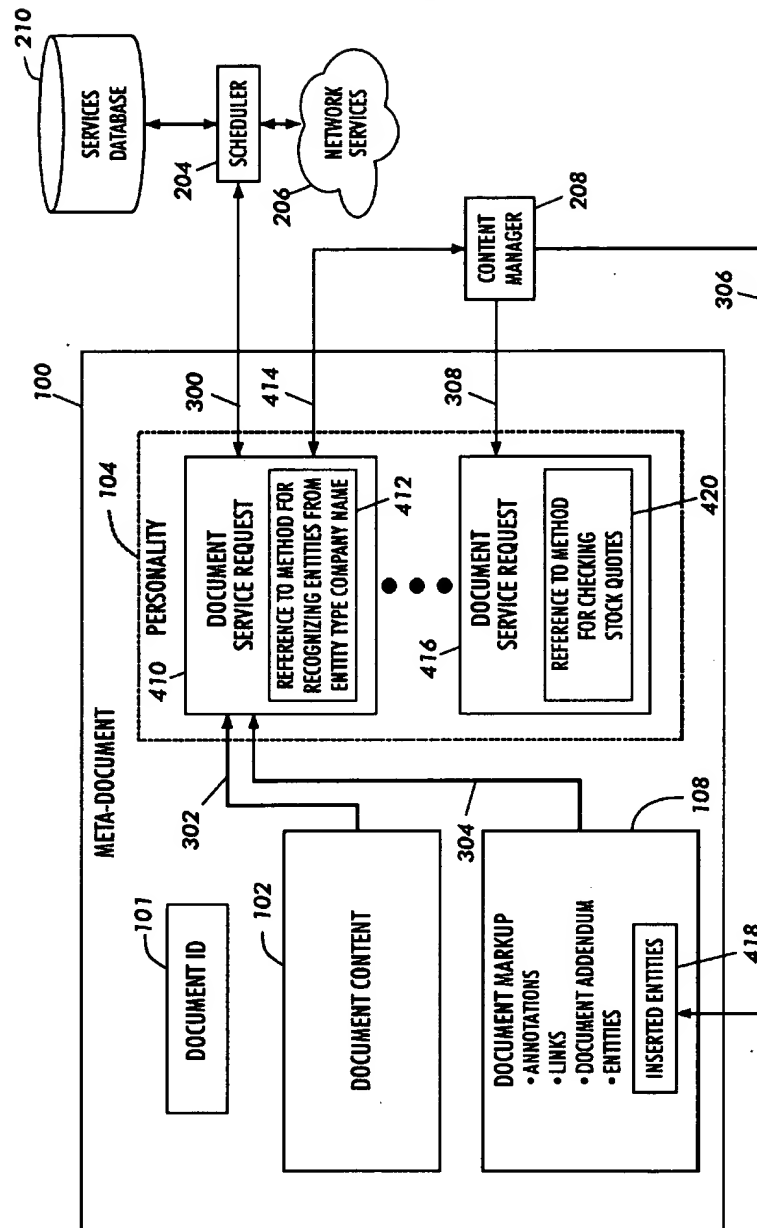


FIG. 4

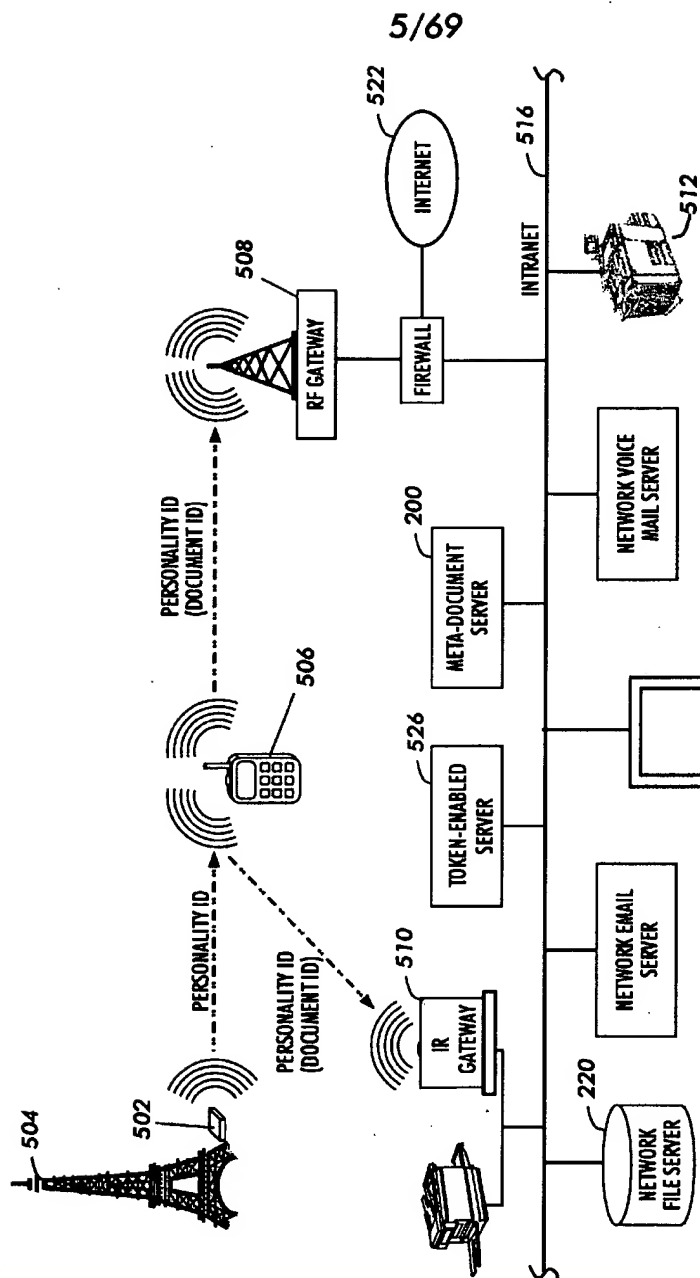
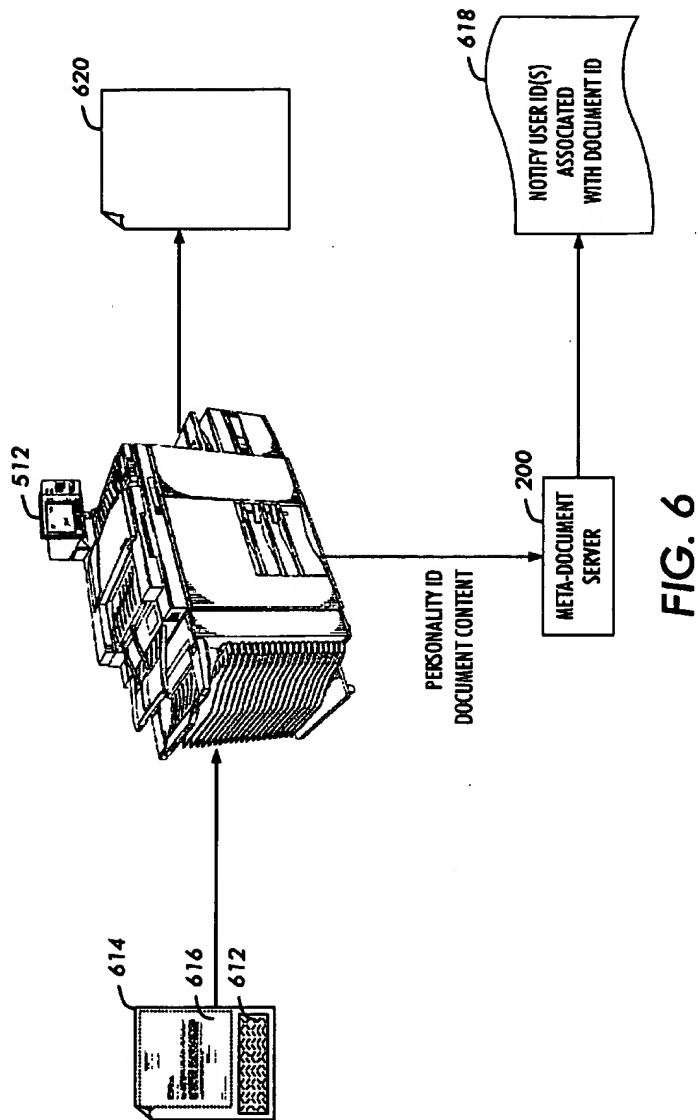


FIG. 5

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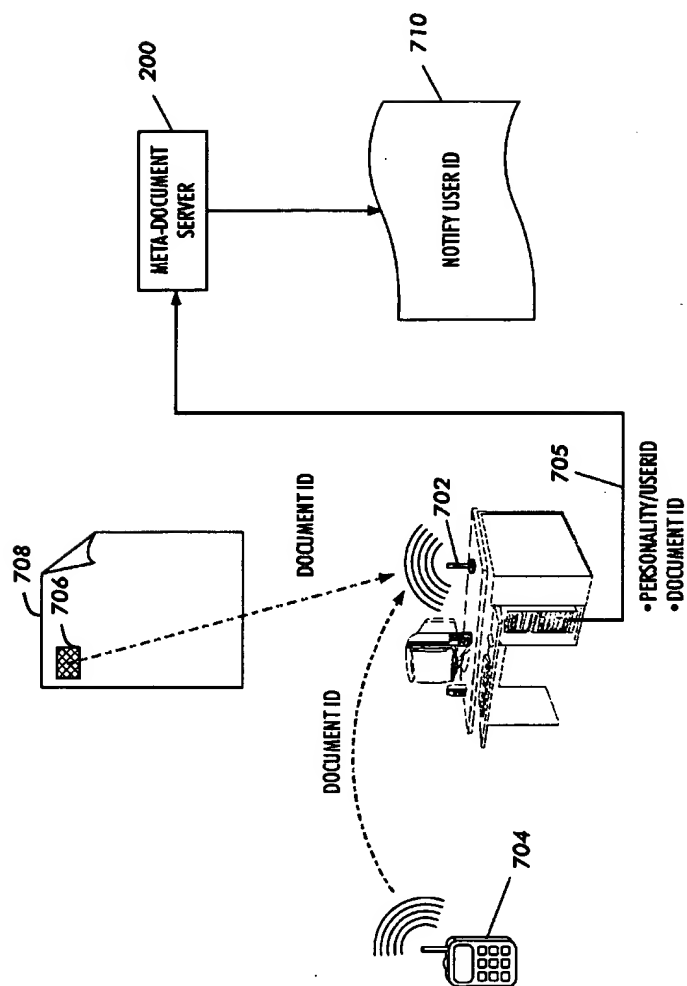


FIG. 7

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PRINT

PRINTER

NAME:

STATUS: IDLE 814

TYPE: XEROX 4517 POSTSCRIPT LEVEL 2

WHERE: TIMES.GRENOBLE.XRCE.XEROX.COM.PASSTHRU ☐ PRINT TO FILE

COMMENT: XEROX N2125 B&W DUPLEX - LE CHATEAU - 2ND FLOOR

PAGE RANGE

☒ ALL ☐ CURRENT PAGE ☐ SELECTION

☐ PAGES:

ENTER PAGE NUMBERS AND/OR PAGE RANGES SEPERATED BY COMMAS. FOR EXAMPLE 1,3,5-12 804

COPIES

NUMBER OF COPIES:

☒ COLLAPE 806

ENRICHMENT

☒ PERSONALITY: ☐ SELECT A PERSONALITY FOR ME

APPLY ENRICHMENT TO:

☒ ALL ☐ CURRENT PAGE ☐ SELECTION

☐ PAGES:

INSERT ENRICHMENT AS:

☒ LINKS ☐ CONTENT

808 **ZOOM** **802** **810**

PRINT WHAT: PAGES PER SHEET:

PRINT: SCALE TO PAPER SIZE:

800

FIG. 8

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PRINT DOCUMENT PROPERTIES

LAYOUT PAPER/QUALITY **ENRICHMENT**

900 ☒ PERSONALITY: BUSINESS 902 ☐ SELECT PERSONALITY FOR ME

901 PROVIDE ENRICHMENT BY:

☒ PRINTING WITH DOCUMENT

☐ STORING AT SERVER

901 INSERT ENRICHMENT AS:

☒ LINKS

☐ CONTENT

904 WHEN STORING ENRICHMENT AT SERVER:

☒ EMAIL ME WHEN COMPLETED

ADDRESS: _____

☐ DO NOT NOTIFY ME

906 CAPTURE POINT: 908

☒ AT WORKSTATION

☐ AT PRINT SERVER

ADVANCED

OK CANCEL

FIG. 9

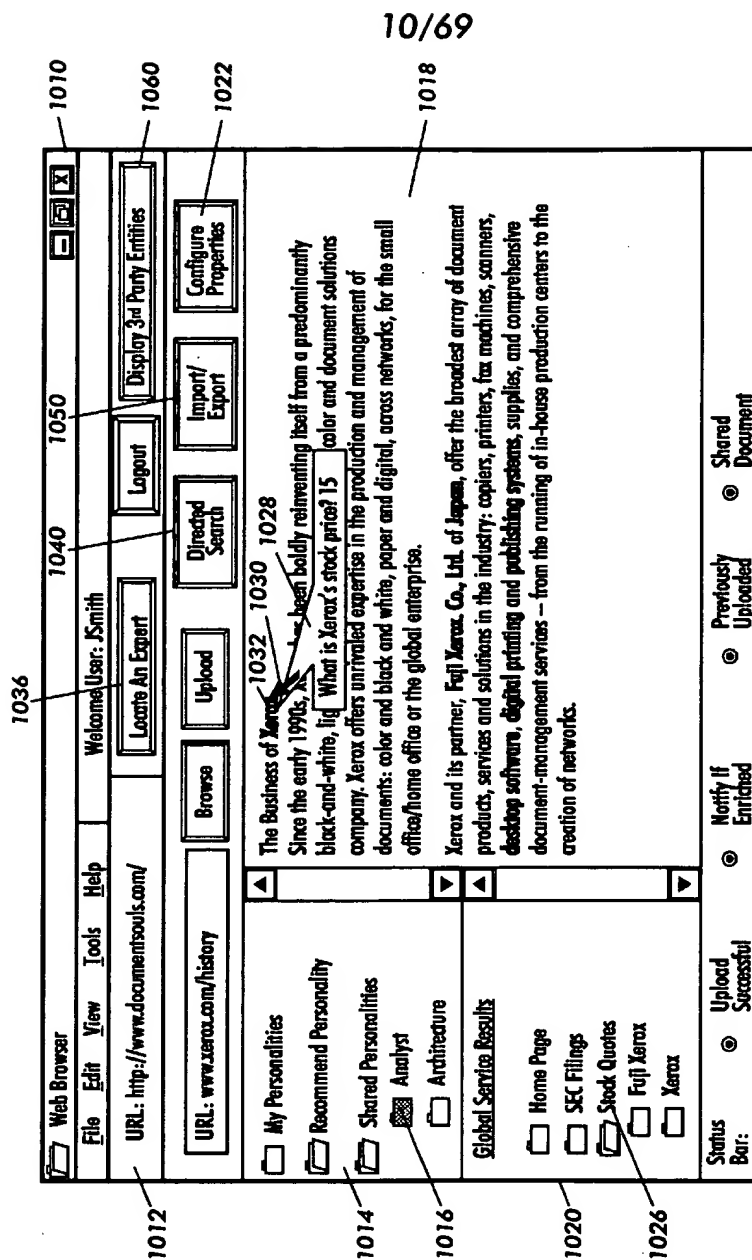


FIG. 10

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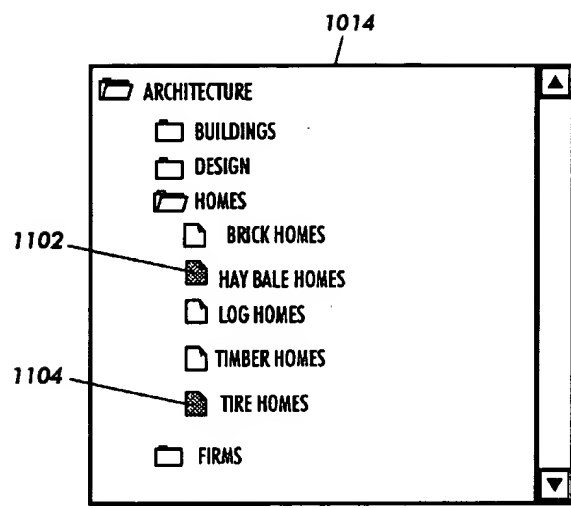


FIG. 11

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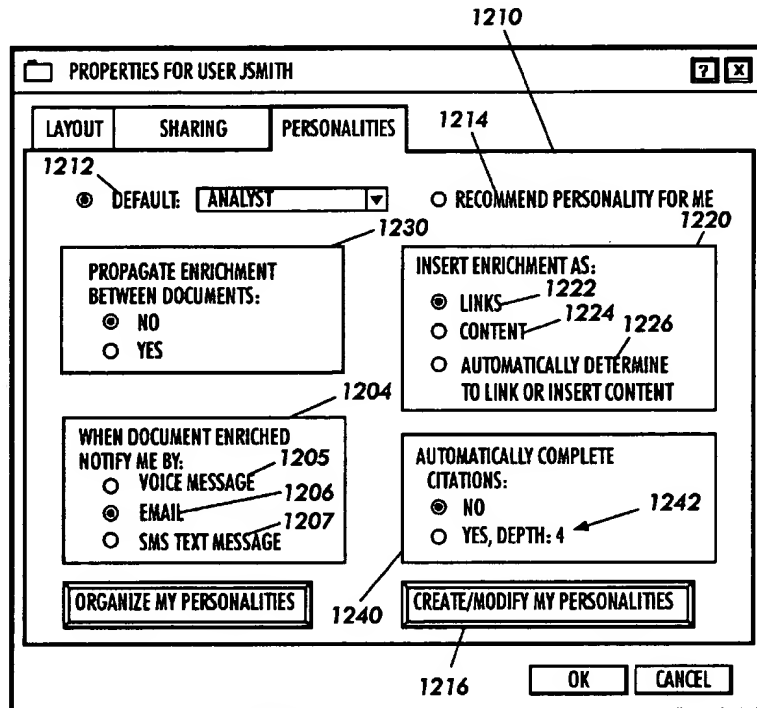


FIG. 12

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1310

CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES

1312

1314

1316

LIST OF AVAILABLE PERSONALITIES

Name	Creation Date
Technology Watch In Computer Sciences	2001-03-16 14:08:06
Watch Business	2001-03-16 14:08:08
Watch Legal	2001-03-16 14:08:10
Watch Intellectual Property	2001-03-16 14:08:10
Scientific Watch In Medicine	2001-03-16 14:08:10

1318

LIST OF AVAILABLE BUSINESS SERVICES

those Services are classified by Service Categories, a ticked checkbox meaning that the according service is attached to the selected personality.

Click on this icon to view all available service categories

Search Engine

- *luckygoogle People Google Lucky Result*

Stock Quotes

- *Bloomberg Stock Quotes*

OK CANCEL

FIG. 13

1310

1312

1314

1316

1318

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1404 1422 1420 1408

1318 1400 1426 1412 1414 1430 1442 1440 1444 1450

SEARCH ENGINE ☐ ☐

SEL	NAME	ENTITY TYPE	ANNOTATE	DEPTH	PROVIDER	COST	QUERY	REFRESH
<input checked="" type="checkbox"/>	COMPUTING	COMPUTING	ALWAYS	0	YAHOO	FREE	LINK	DAILY
<input type="checkbox"/>	BIOLOGY	BIOLOGY	ALWAYS	0	GOOGLELUCKY	NULL	LINK	NEVER
<input type="checkbox"/>	MEDICINE	MEDICINE	ALWAYS	0	ALTAVISTA	FEE	LINK	AUTO
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES AND IDENTIFY 3RD PARTY ENTITIES	COMPANIES	EXPERT	0	GOOGLELUCKY	NULL	CONTENT	NULL
<input checked="" type="checkbox"/>	APPLY PAIRS OF ENTITIES USING GOOGLELUCKY	PRODUCTS	ALWAYS	2	NORTHERNLIGHTS	NULL	LINK	WEEKLY
<input type="checkbox"/>	COUNTRIES	COUNTRIES	NOVICE	0	GOOGLELUCKY	FEE	CONTENT	UNTIL 2003
<input type="checkbox"/>	ASTRONOMY	ASTRONOMY	ALWAYS	1	GOOGLE	NULL	LINK	MONTHLY
<input checked="" type="checkbox"/>	PEOPLE	PEOPLE	ALWAYS	3	GOOGLE PEOPLE	NULL	LINK	NULL

1452 1451 1455 1453 1456 1454

VIEW HIERARCHY
SET DEPTH 1432

1424

FIG. 14

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1502

The screenshot shows a software window titled "CREATE/MODIFY MY PERSONALITIES" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains the following elements:

- NAME:** A label followed by a "BROWSE" button and a text input field (labeled 1504).
- Radio Buttons:** Four radio buttons are arranged vertically, each followed by a text box:
 - The first radio button (labeled 1506) is selected and followed by the text "CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES".
 - The second radio button (labeled 1508) is followed by the text "USE SELECTED DOCUMENTS AND/OR FOLDERS TO CREATE A NEW PERSONALITY". Below this text is a "BROWSE" button and a text input field (labeled 1509).
 - The third radio button (labeled 1510) is followed by the text "USE SELECTED FILE/WEBSITE TO CREATE A NEW PERSONALITY". Below this text is a "BROWSE" button and a text input field.
 - The fourth radio button (labeled 1520) is followed by the text "CREATE QUESTION FORM USING PERSONALITY LEXICONS". Below this text is a "QUESTION:" label and a text input field.
- Hint:** A label followed by a text input field (labeled 1514).
- Knowledge Level:** A label "1516 KNOWLEDGE LEVEL:" followed by two radio buttons:
 - The first radio button is selected and followed by the text "NOVICE".
 - The second radio button is followed by the text "EXPERT".
- Buttons:** At the bottom right, there are "OK" and "CANCEL" buttons (labeled 1512).

FIG. 15

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1600

CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES

NAME: TECHNOLOGY WATCH IN ORGANIC CHEMISTRY

OPERATION:

☒ MERGE 1602

☐ SUBTRACT 1604

PERSONALITY A ▼

WITH/FROM

PERSONALITY B ▼

OK CANCEL

FIG. 16

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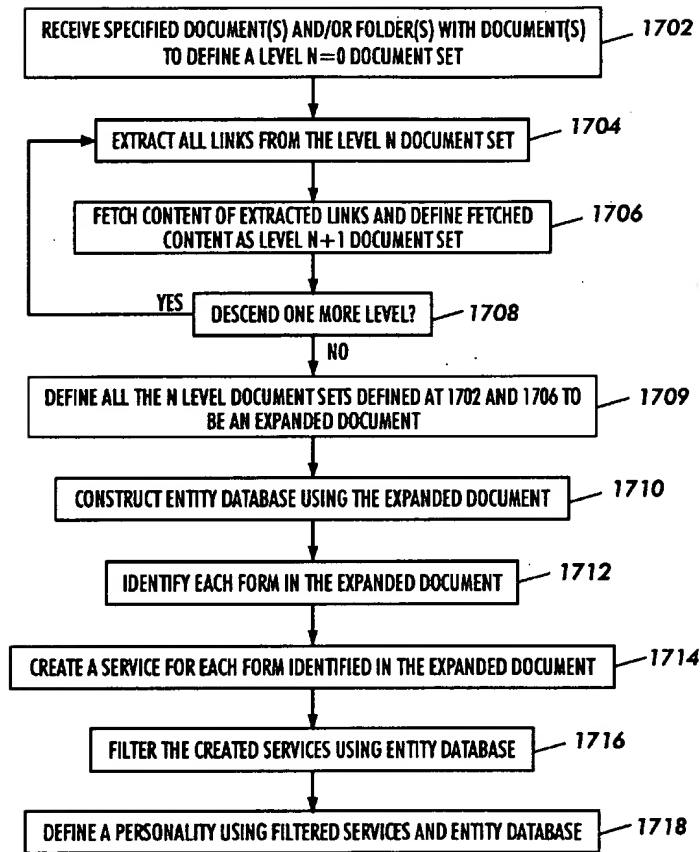


FIG. 17

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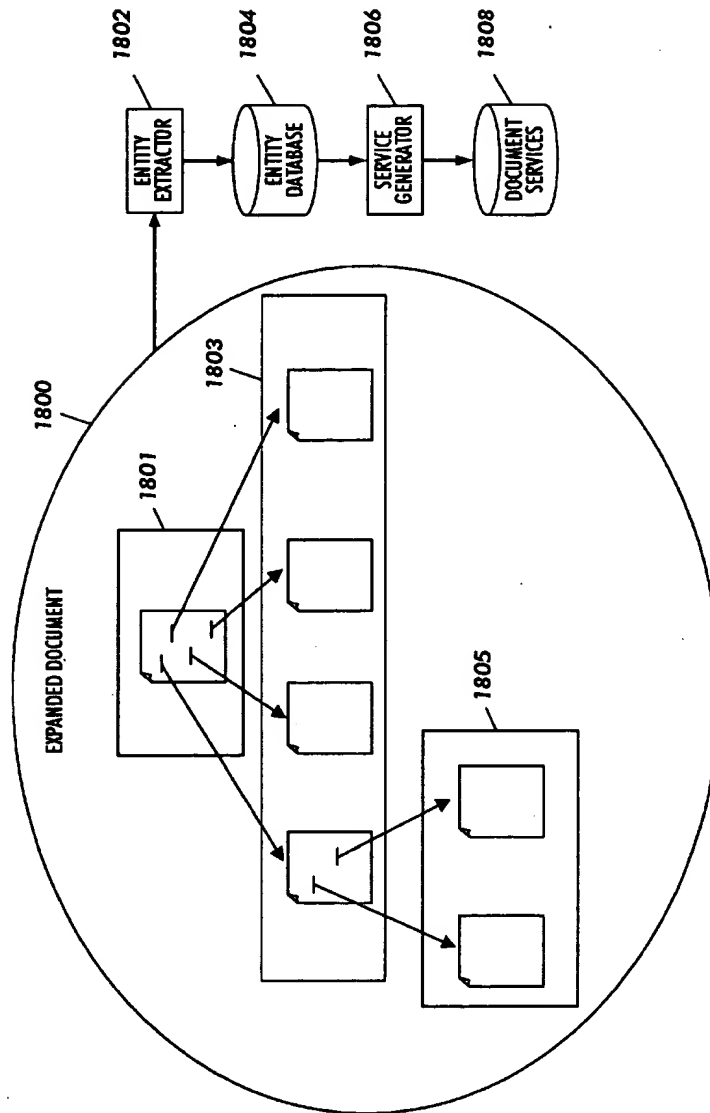


FIG. 18

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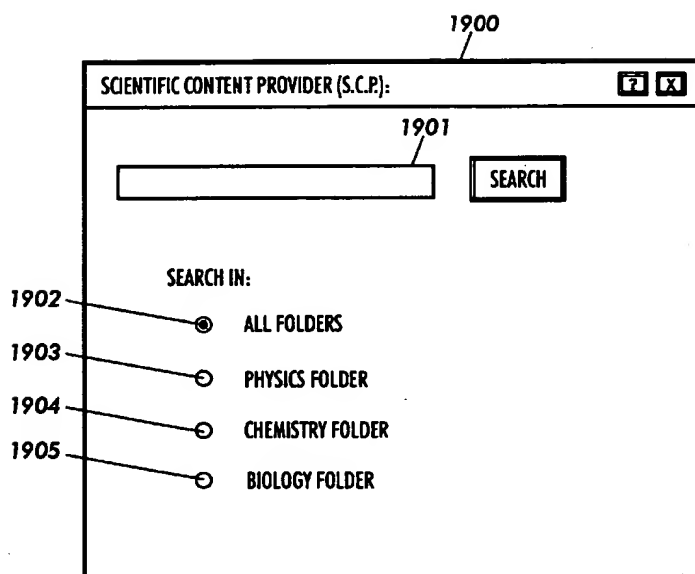


FIG. 19

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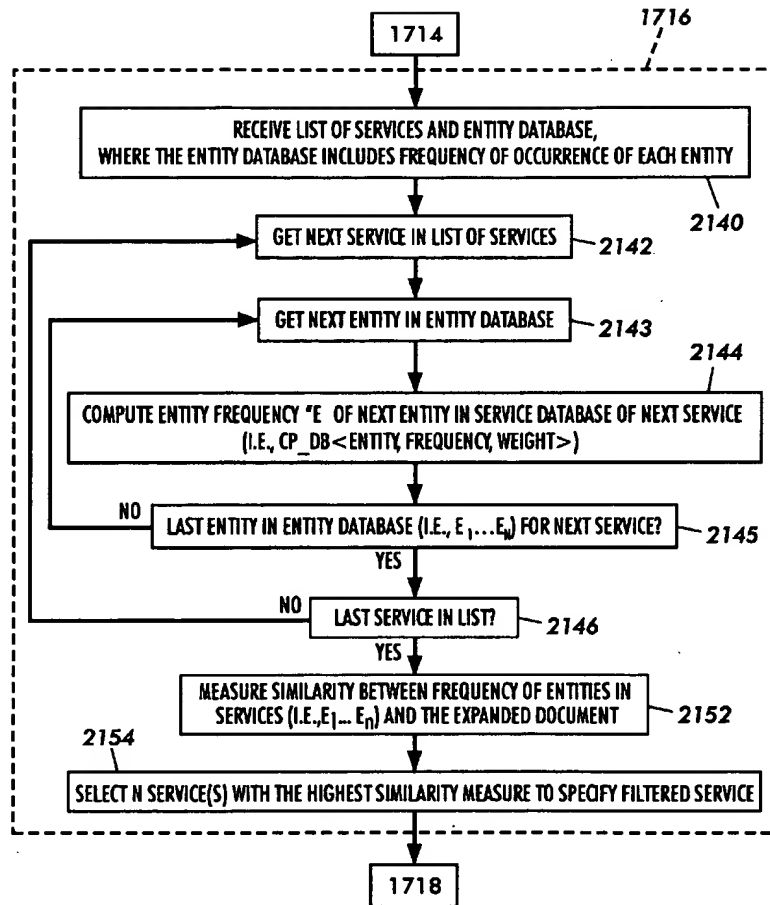


FIG. 21

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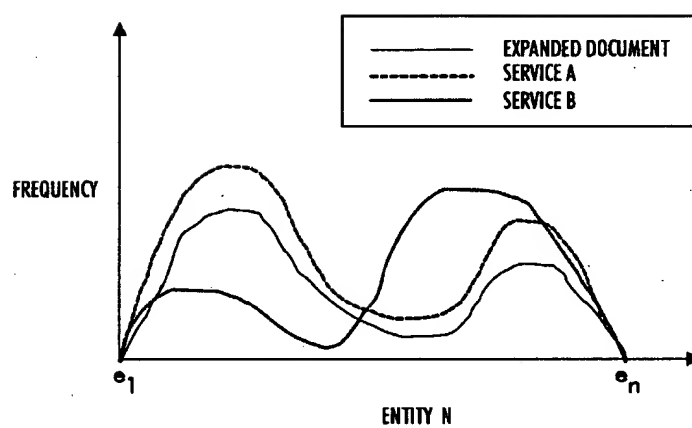


FIG. 22

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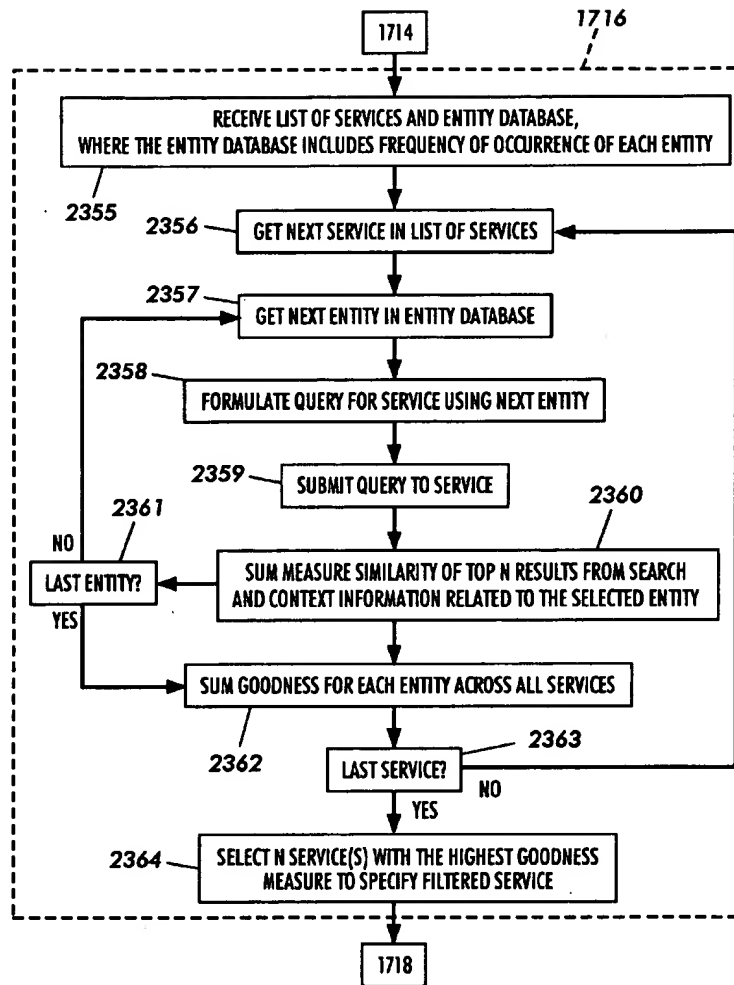


FIG. 23

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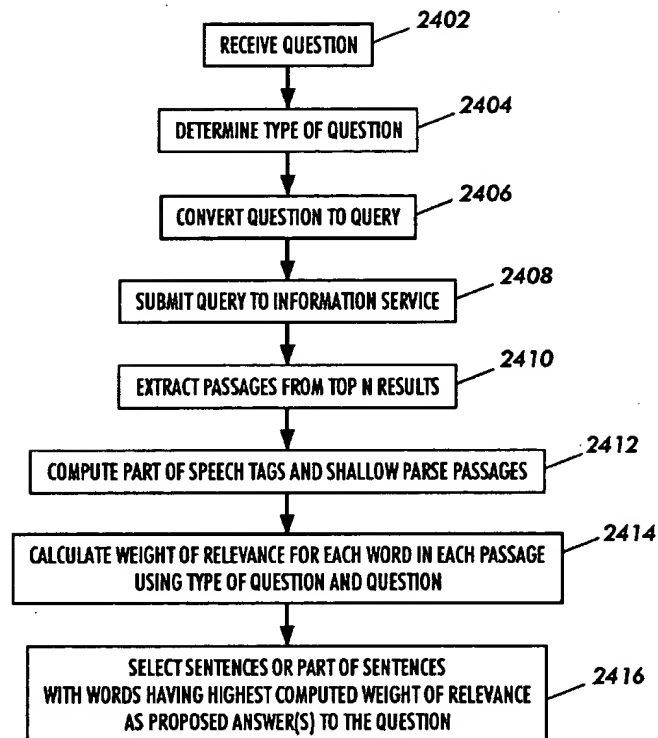


FIG. 24

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2502

E-LEARNING SERVICES ASSOCIATED WITH E-LEARNING PERSONALITY	
2504	<input checked="" type="checkbox"/> SEL
2506	<input checked="" type="checkbox"/> LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
2508	<input checked="" type="checkbox"/> LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
2510	<input checked="" type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A TUTORIAL CONCERNING EACH TEXT UNIT
2512	<input checked="" type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN EXPERT CONCERNING IDENTIFIED SUBJECTS
2514	<input checked="" type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN INTERACTIVE COURSE ABOUT IDENTIFIED SUBJECTS
2516	<input checked="" type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED SUBJECTS
	<input checked="" type="checkbox"/> LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LEARNING RESOURCES CONCERNING EACH TEXT UNITS

FIG. 25

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2602

LANGUAGE LEARNING SERVICES ASSOCIATED WITH LANGUAGE LEARNING PERSONALITY	
SEL	
<input checked="" type="checkbox"/>	LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
<input type="checkbox"/>	LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
<input type="checkbox"/>	LINK EACH SENTENCE, OR PHRASE, TO A GRAMMATICAL DESCRIPTION OF THE STRUCTURE OF THE SENTENCE OR PHRASE
<input type="checkbox"/>	LINK EACH WORD, MULTWORD EXPRESSION, PHRASE OR SENTENCE TO OTHER INSTANCES OF THE SAME IN DIFFERENT CONTEXTS FROM THE PRESENT
<input type="checkbox"/>	LINK EACH WORD, MULTWORD EXPRESSION, PHRASE OR SENTENCE TO ONE OR MORE INTERACTIVE GRAMMAR EXERCISES CONCERNING THAT ELEMENT
<input checked="" type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED LANGUAGE
<input checked="" type="checkbox"/>	LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LANGUAGE LEARNING RESOURCES CONCERNING EACH TEXT UNITS

FIG. 26

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2710

STOCK QUOTE OPTIONS

2718 2720

PROPERTIES

UPDATE FREQUENCY: EVERYDAY ▼

INSERT INFORMATION AS:

2714 STATIC ▼ ○ LINK ● CONTENT AS FOOTNOTE ▼ ○ DETERMINE AUTOMATICALLY

2716 2724

APPLY SERVICE BEHAVIOR TO

○ ALL DOCUMENTS

● CURRENT DOCUMENT 2712

○ SELECTION ONLY

OK CANCEL

FIG. 27

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2800

☐ ANNOTATE PROPERTY

ANNOTATE ENTITIES WHEN:

☐ ALWAYS
 ☒ EXPERT MODE:
 ☐ NOVICE MODE:

CHANGE REFERENCE

ANNOTATE ONLY THOSE ENTITIES THAT OCCUR WITH A FREQUENCY LESS THAN: 4 IN THE REFERENCE DOCUMENT(S) AND/OR DATABASE(S) AT WWW.XRCE.XEROX.COM/DR/EXPERT

ANNOTATE ONLY THOSE ENTITIES THAT OCCUR WITH A FREQUENCY GREATER THAN: 20 IN THE REFERENCE DOCUMENT(S) AND/OR DATABASE(S) AT WWW.XRCE.XEROX.COM/DR/NOVICE.

AND

ANNOTATE ENTITY WHEN IT APPEARS IN DOCUMENT CONTENT WITH A FREQUENCY GREATER THAN: 4.

FIG. 28

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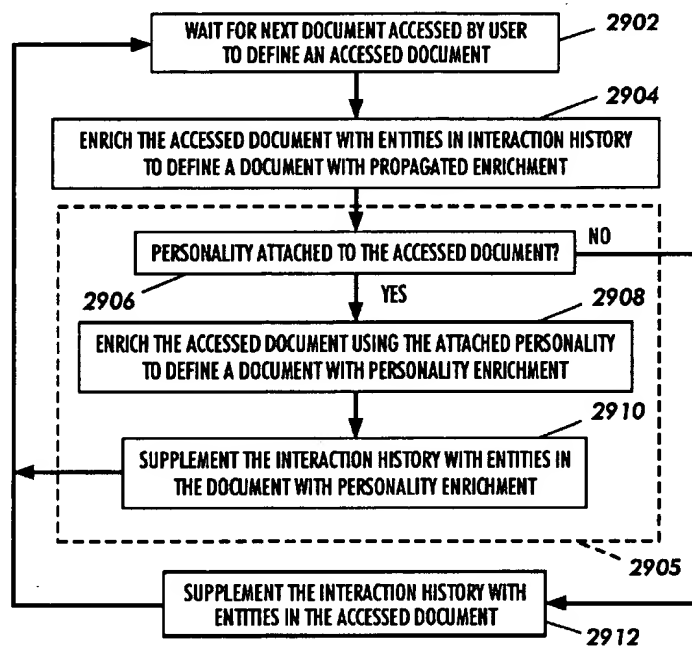


FIG. 29

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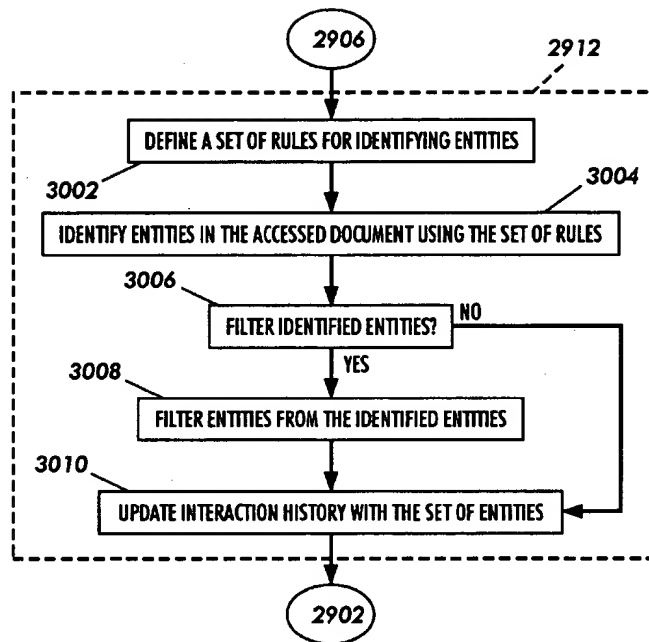


FIG. 30

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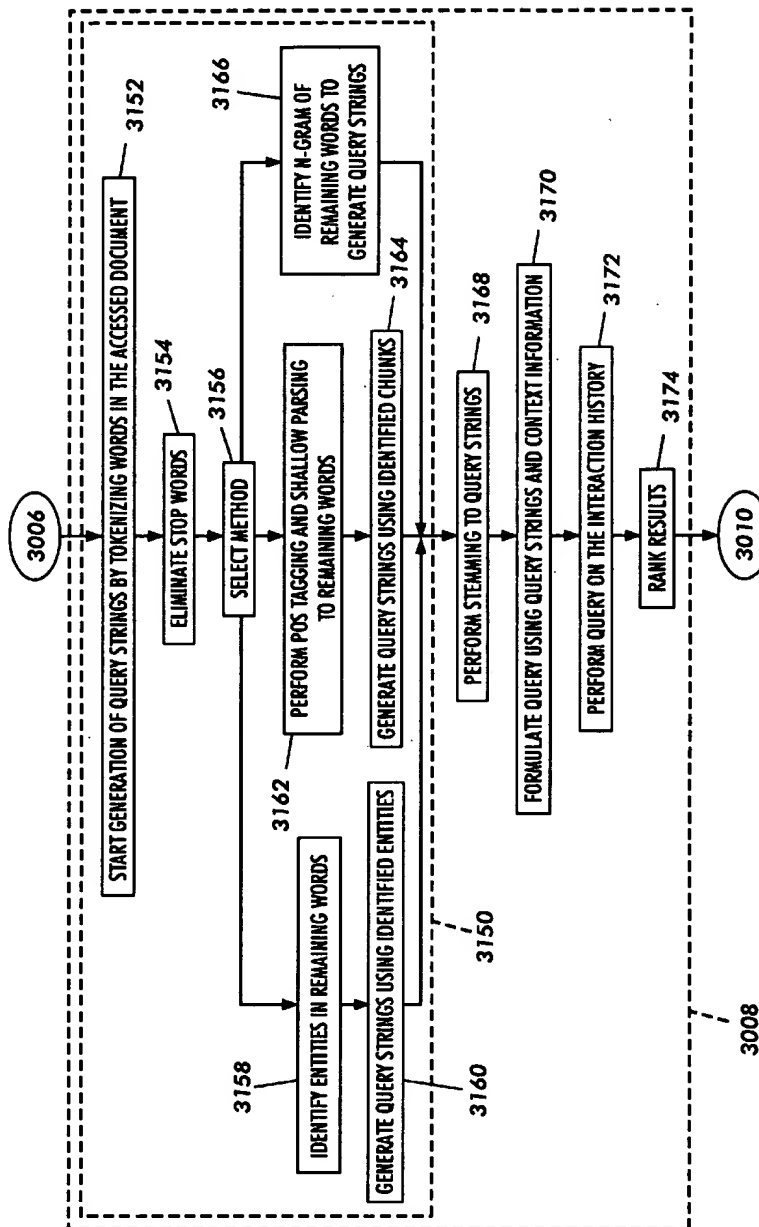


FIG. 31

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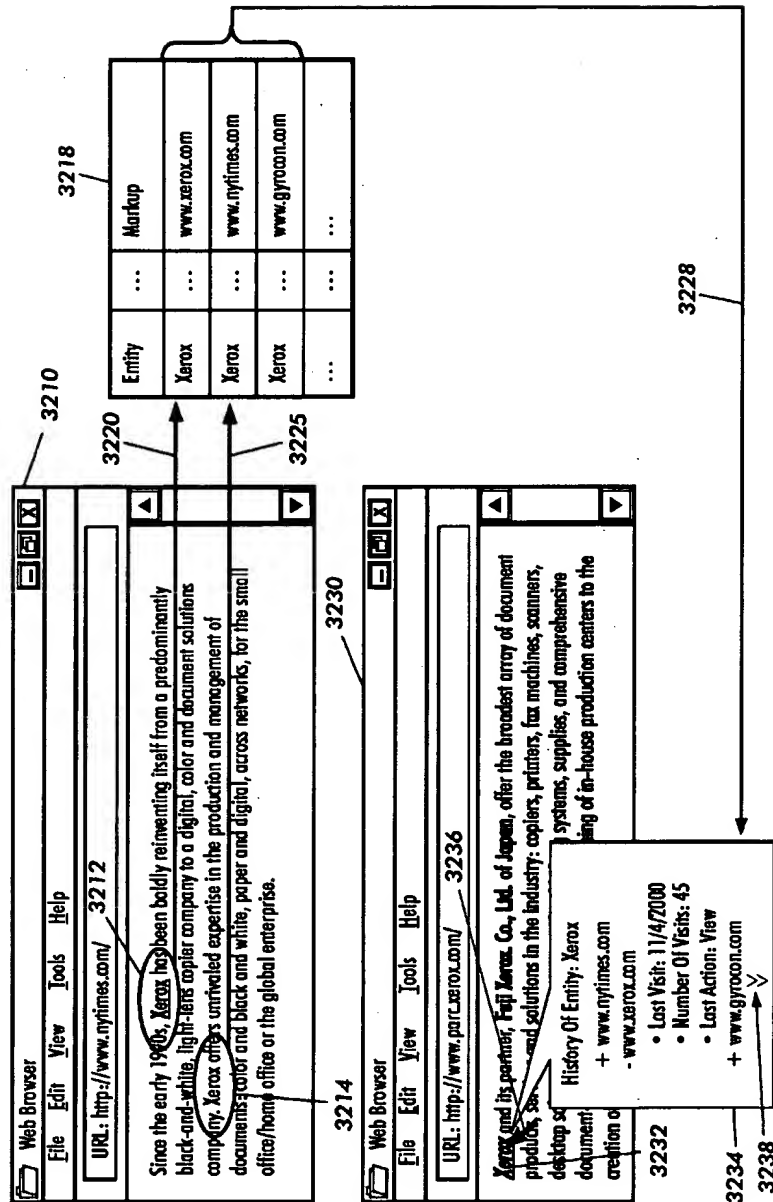


FIG. 32

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3218

ENTITY	ENTITY TYPE	VISITS	LAST VISIT	ACTION LIST	DMOZ CATEGORY	LOCATION	POS	MARKUP
XEROX	BUSINESS	45	11/4/2000	VIEW (43), PRINT(2)	BUSINESS	40	NOUN	WWW.XEROX.COM
XEROX	BUSINESS	1	5/1/2001	VIEW(1)	FINANCE	689	NOUN	WWW.NYTIMES.COM
XEROX	BUSINESS	4	2/22/2001	EMAIL(1), VIEW(3)	COMPUTER	343	NOUN	WWW.GYROCON.COM
...

FIG. 33

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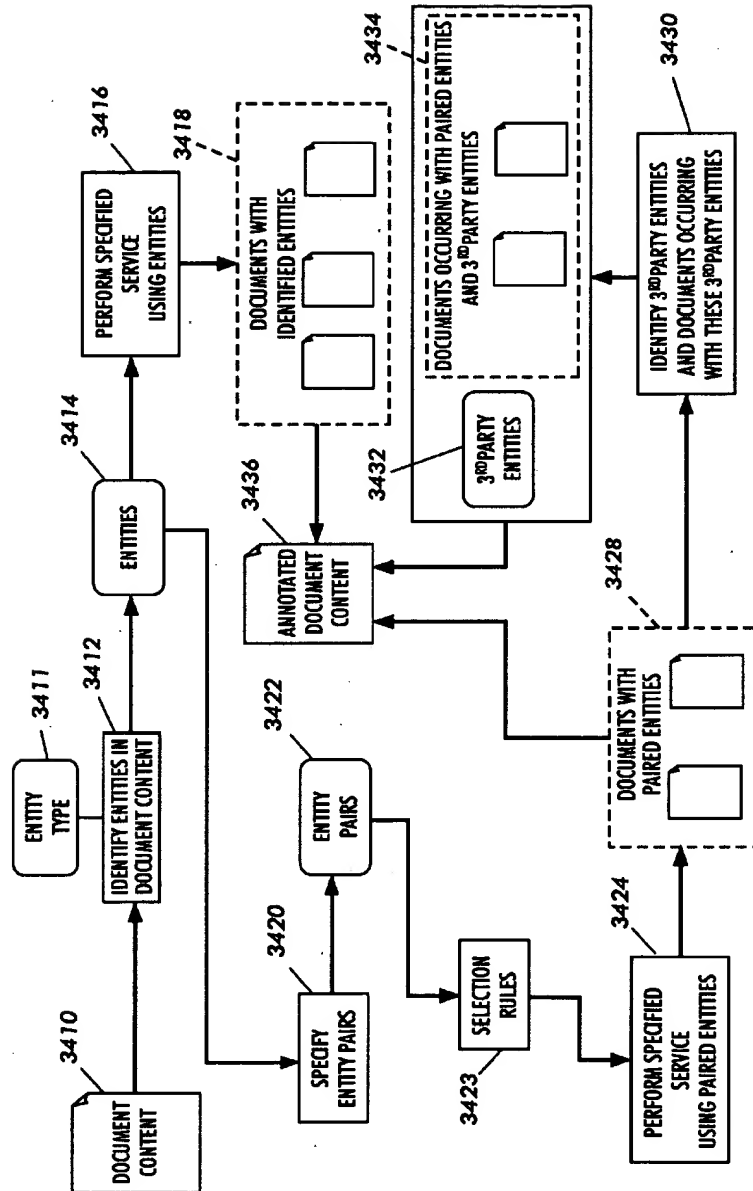


FIG. 34

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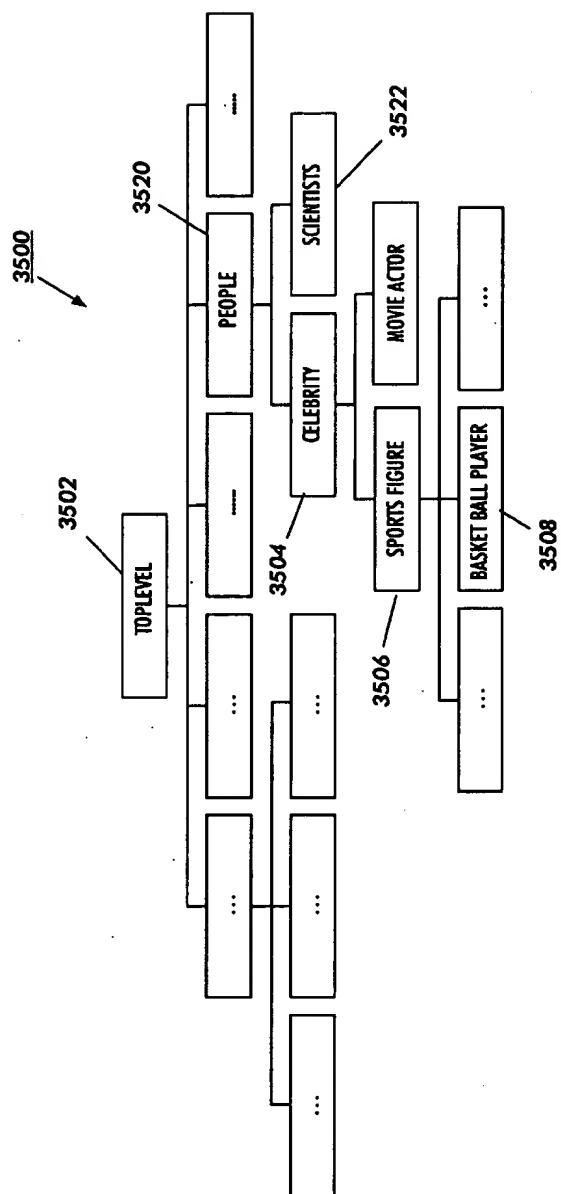


FIG. 35

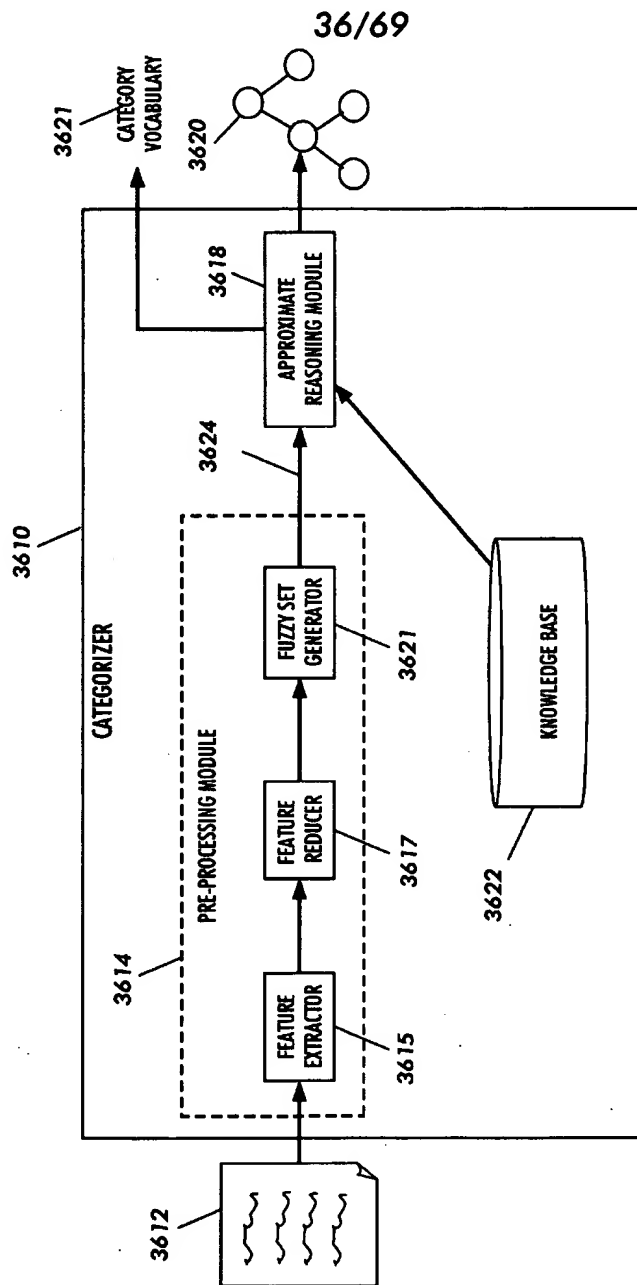
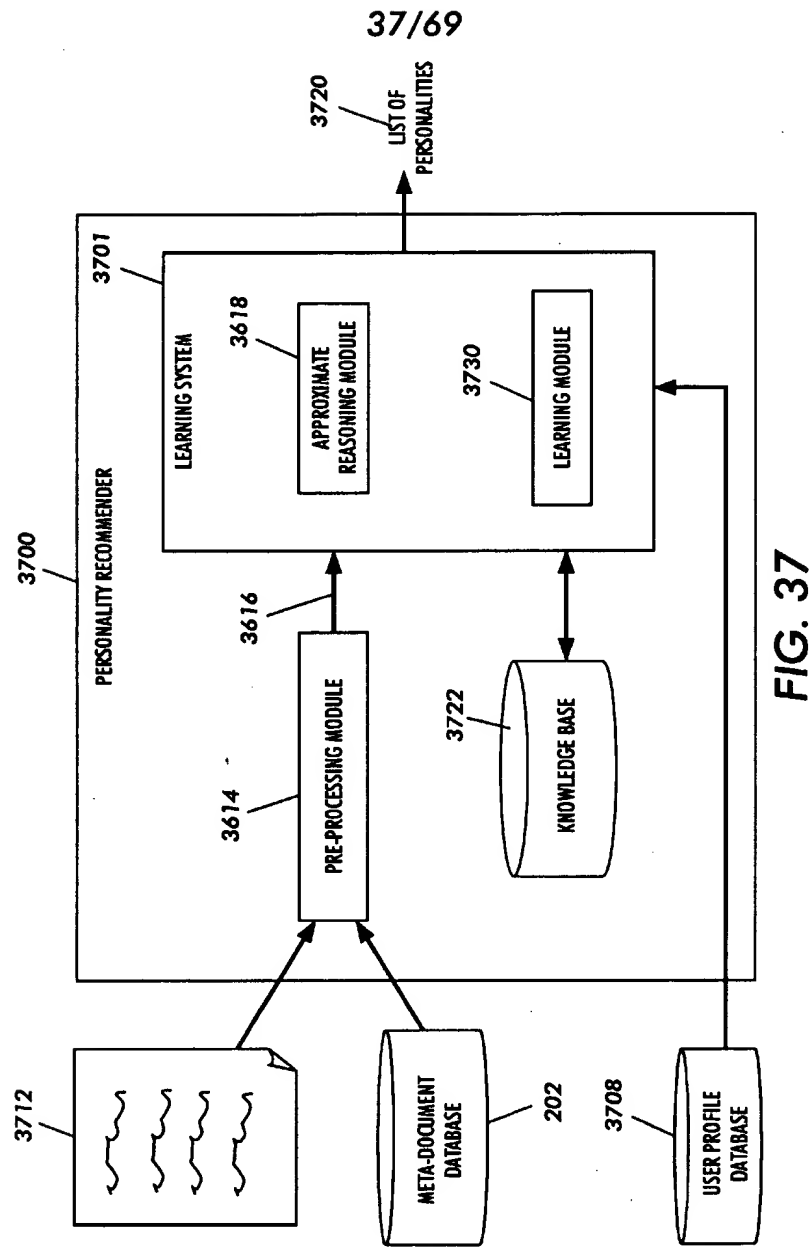


FIG. 36



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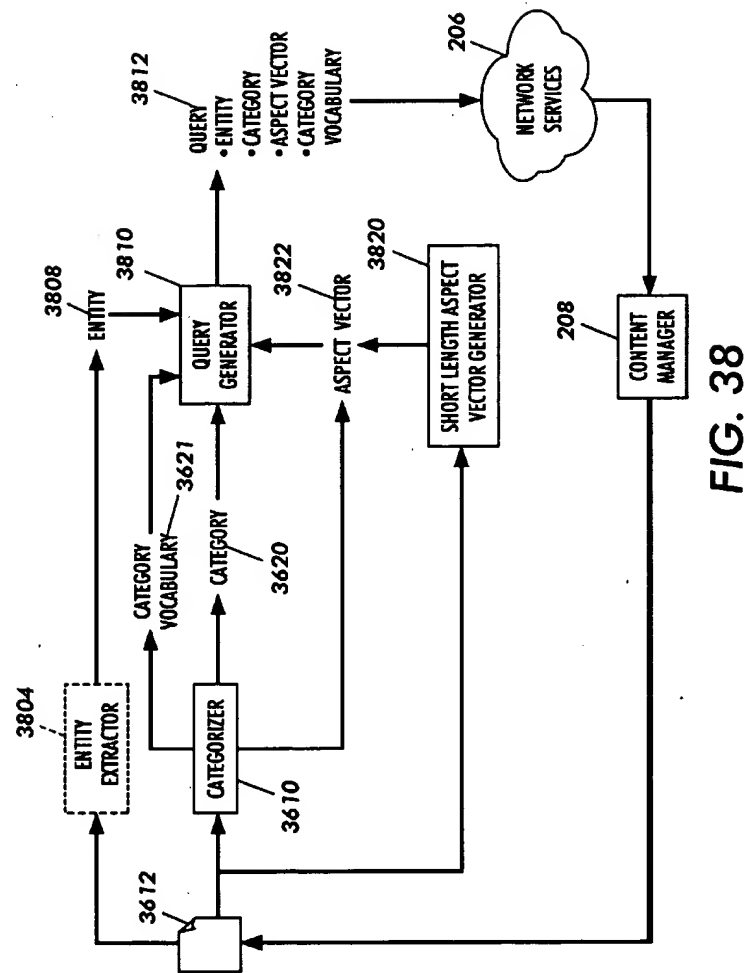


FIG. 38

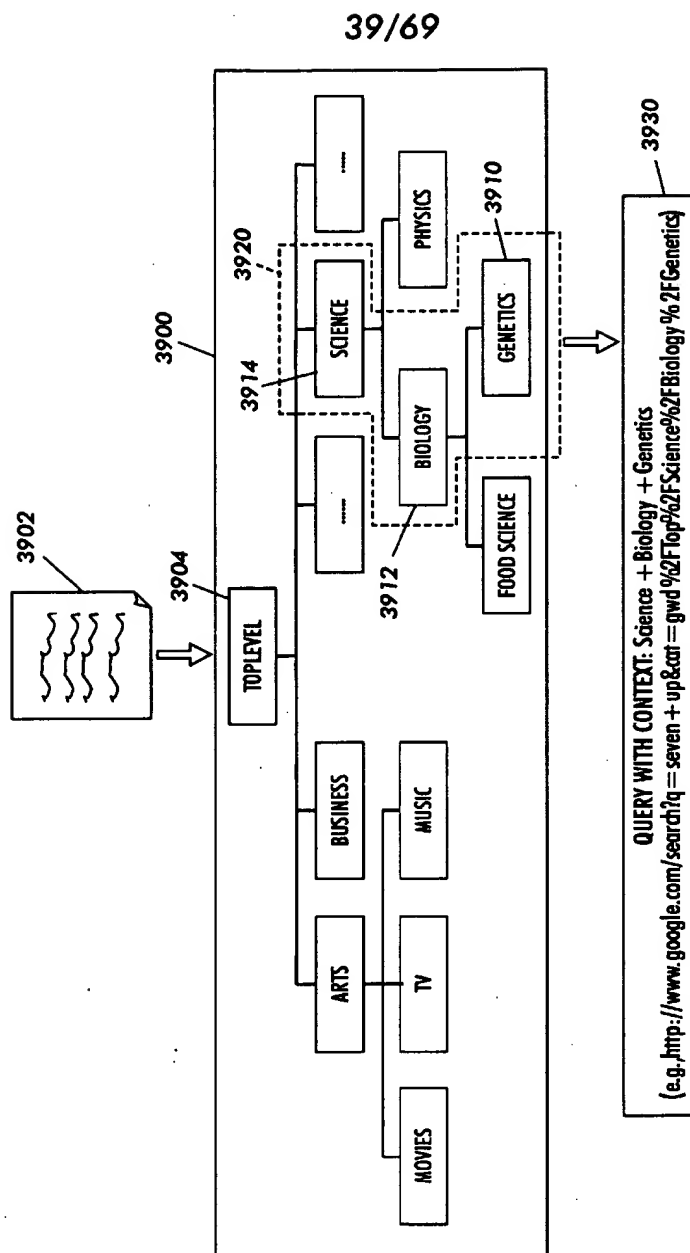


FIG. 39

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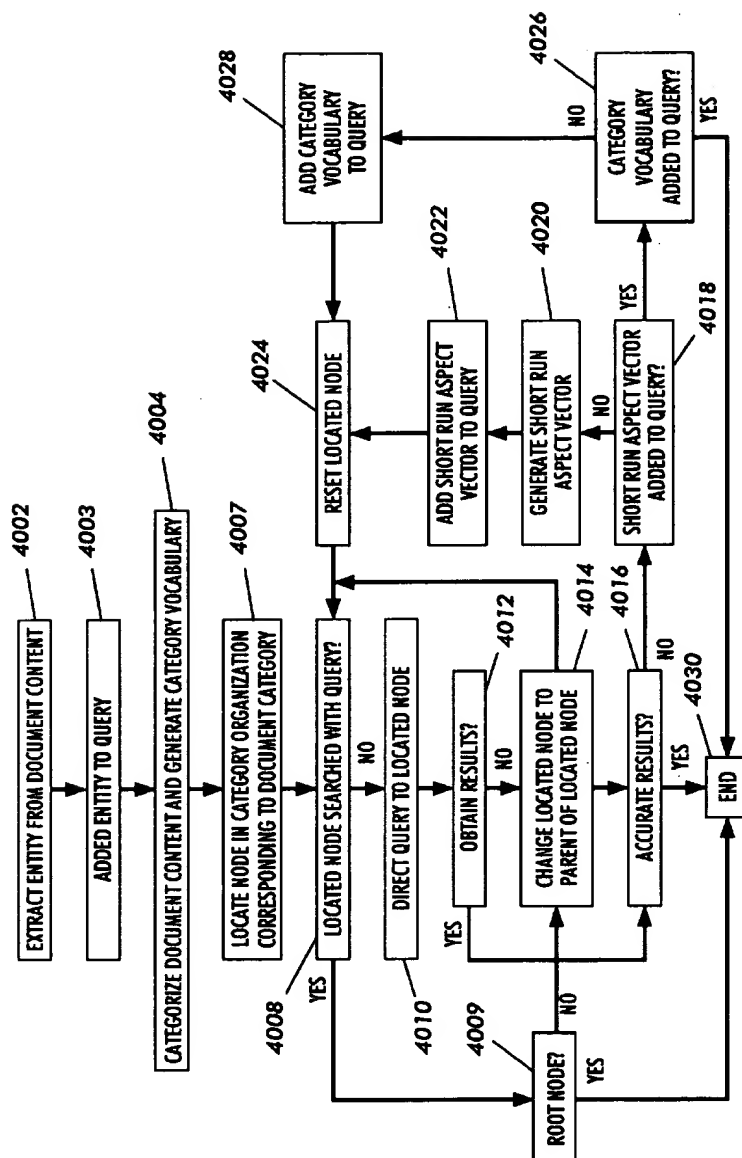
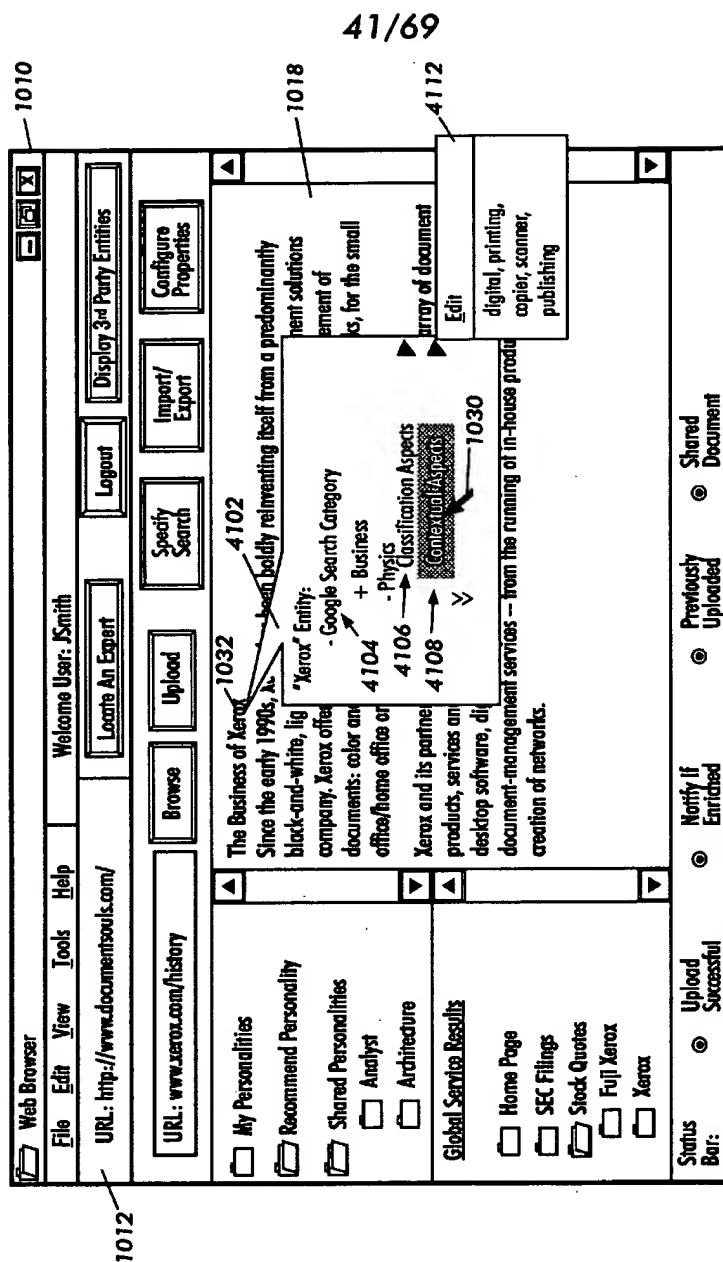


FIG. 40



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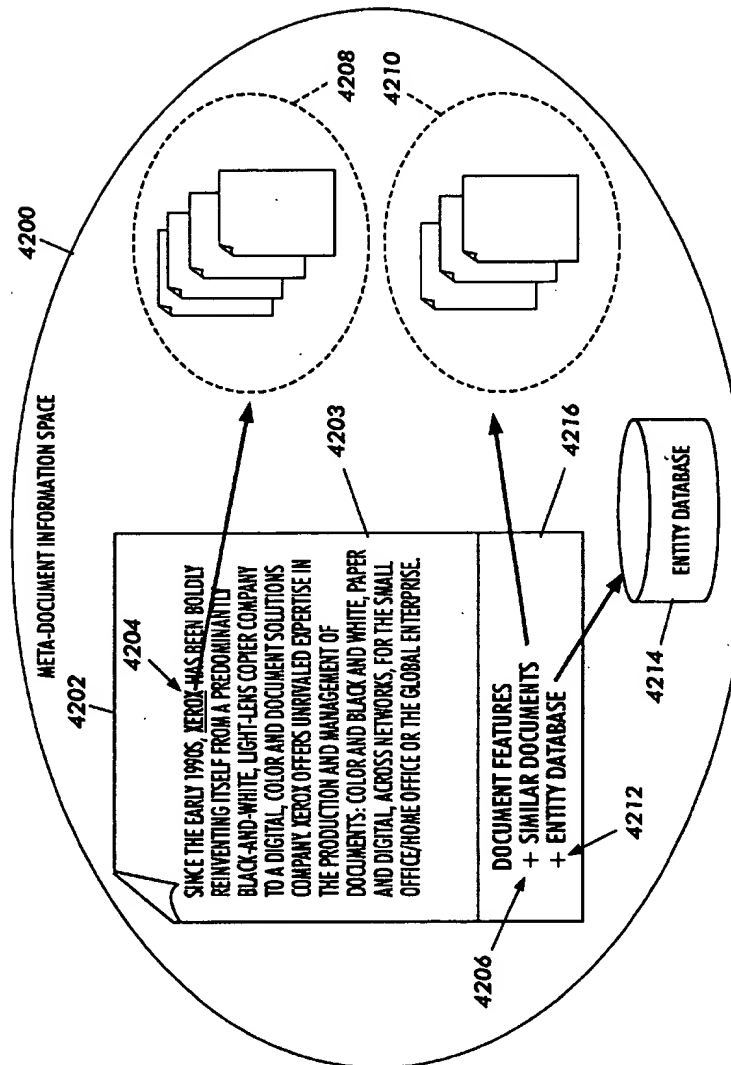


FIG. 42

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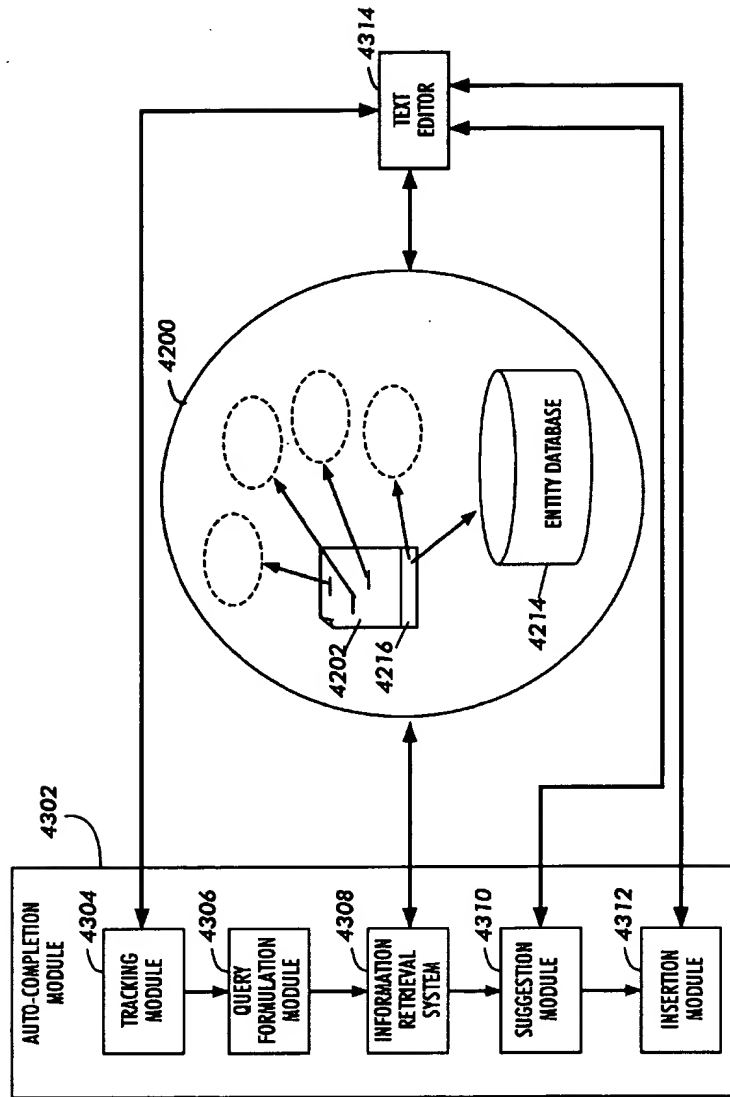


FIG. 43

This Page Blank (uspto)

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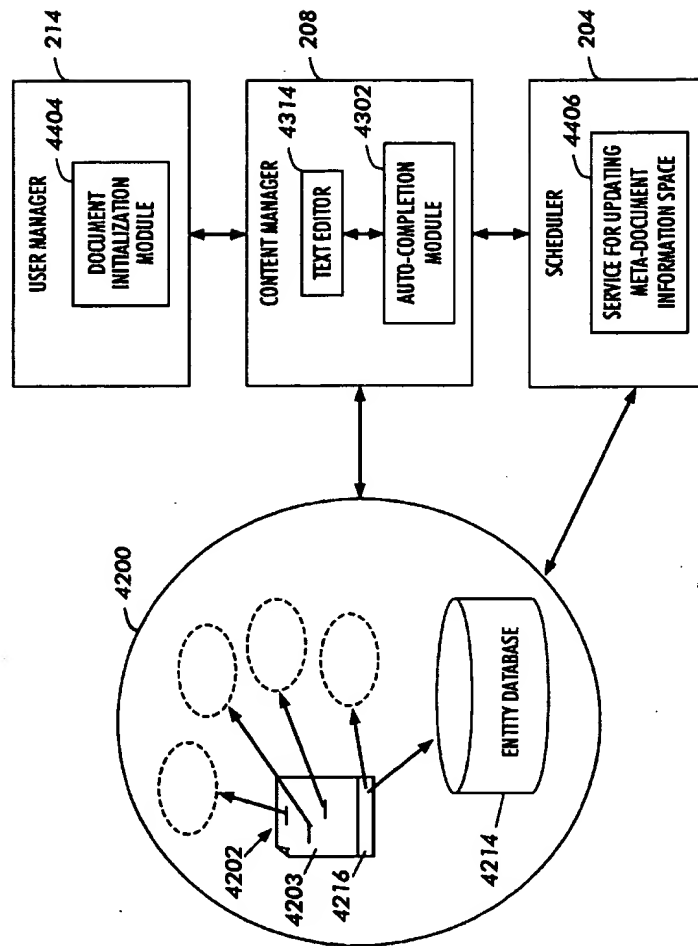


FIG. 44

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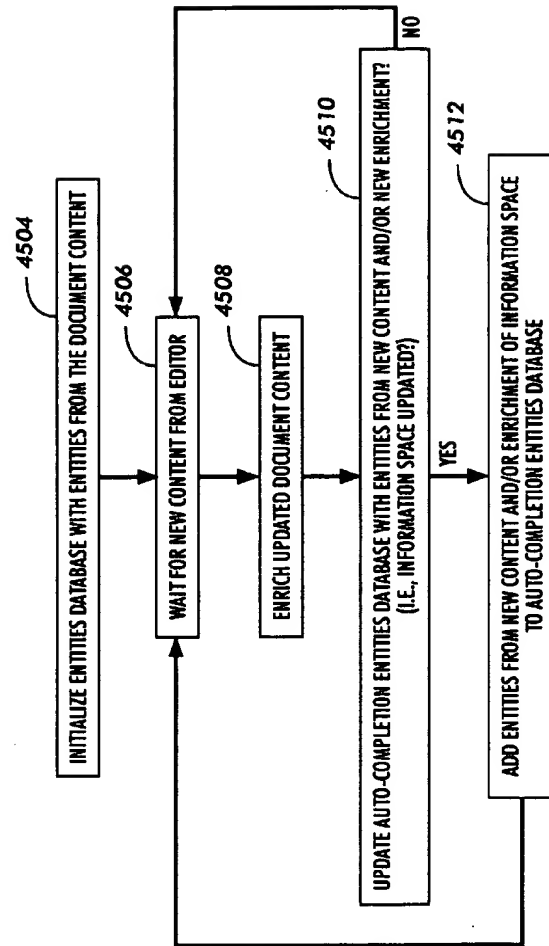


FIG. 45

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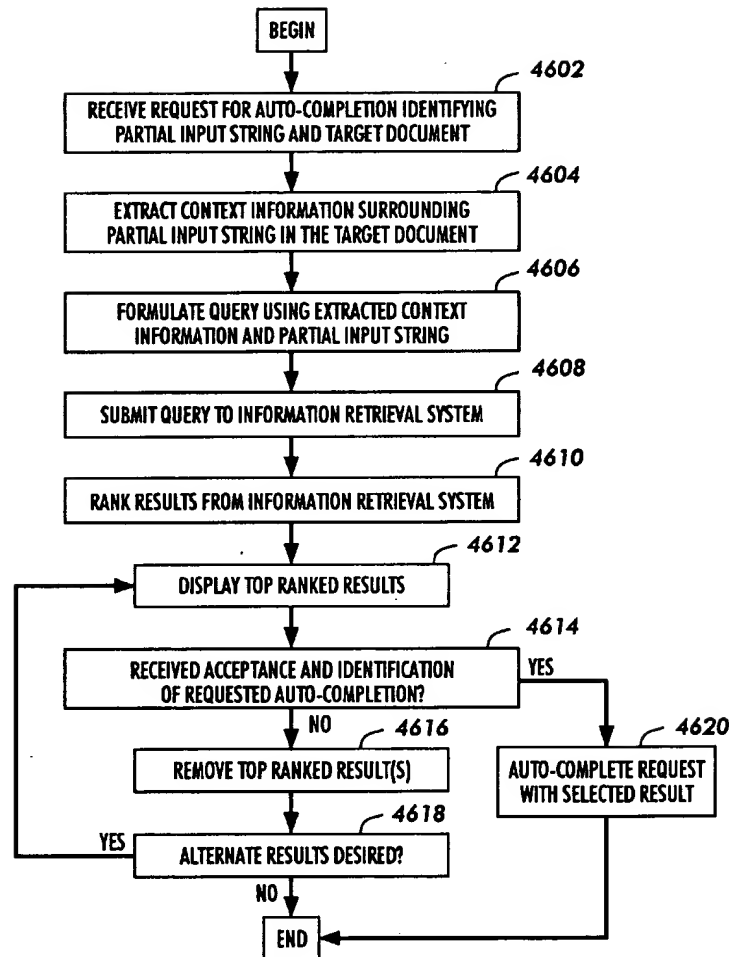


FIG. 46

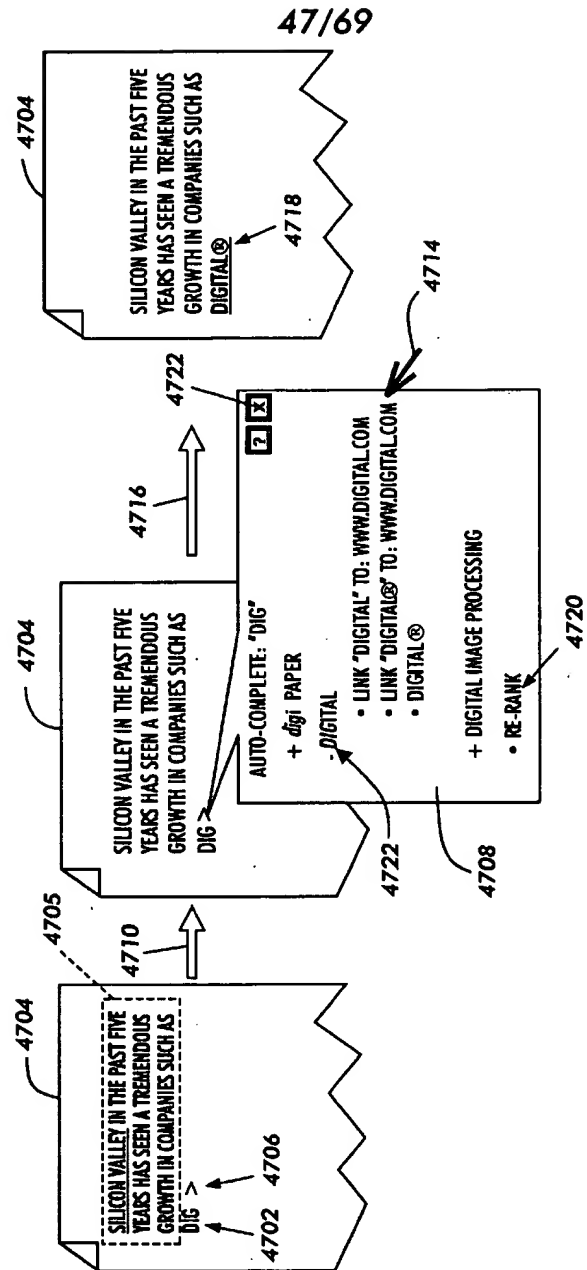


FIG. 47

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(A) KEY	(B) ENTITY	(C) MARKUP	(D) FORMAT	(E) ORIGIN	(F) ORIGIN POSITION	(G) PART OF SPEECH	(H) CONTEXT
Sili	Silicon Valley	www.siliconvalley.com	Capitalize	TARGET DOCUMENT CONTENT	1	Noun	Science
Dig	Digital	www.digital.com	®	www.digital.com	434	Adjective	Science
Dig	DigiPaper	NONE	Bold	www.parc.xerox.com	23	Noun	Science
Dig	digress	NONE	NONE	www.nytimes.com	343	Verb	Politics
...

FIG. 48

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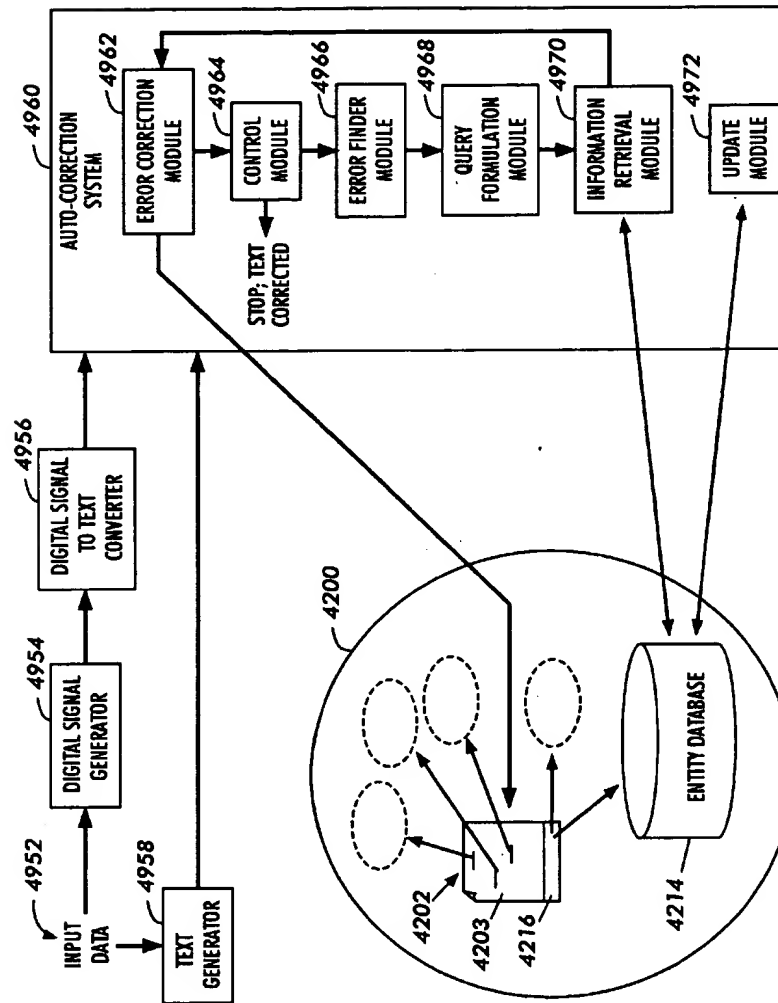


FIG. 49

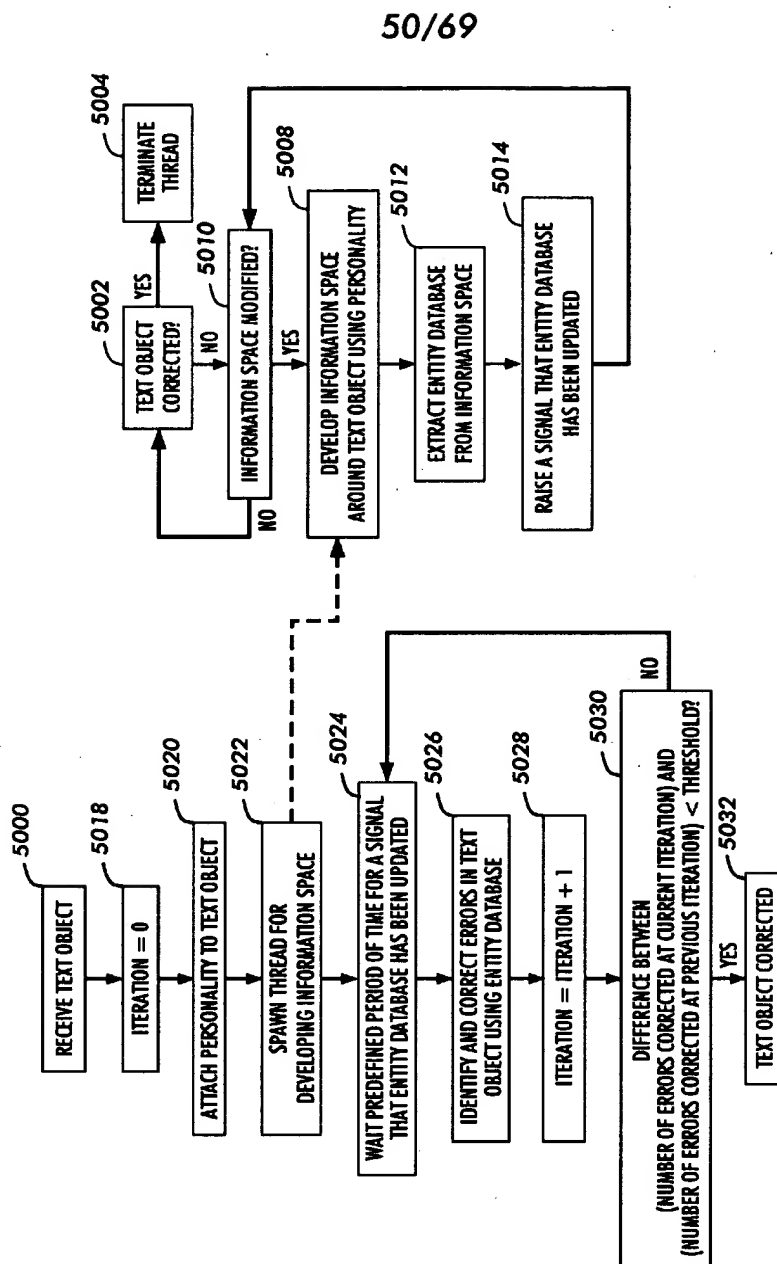


FIG. 50

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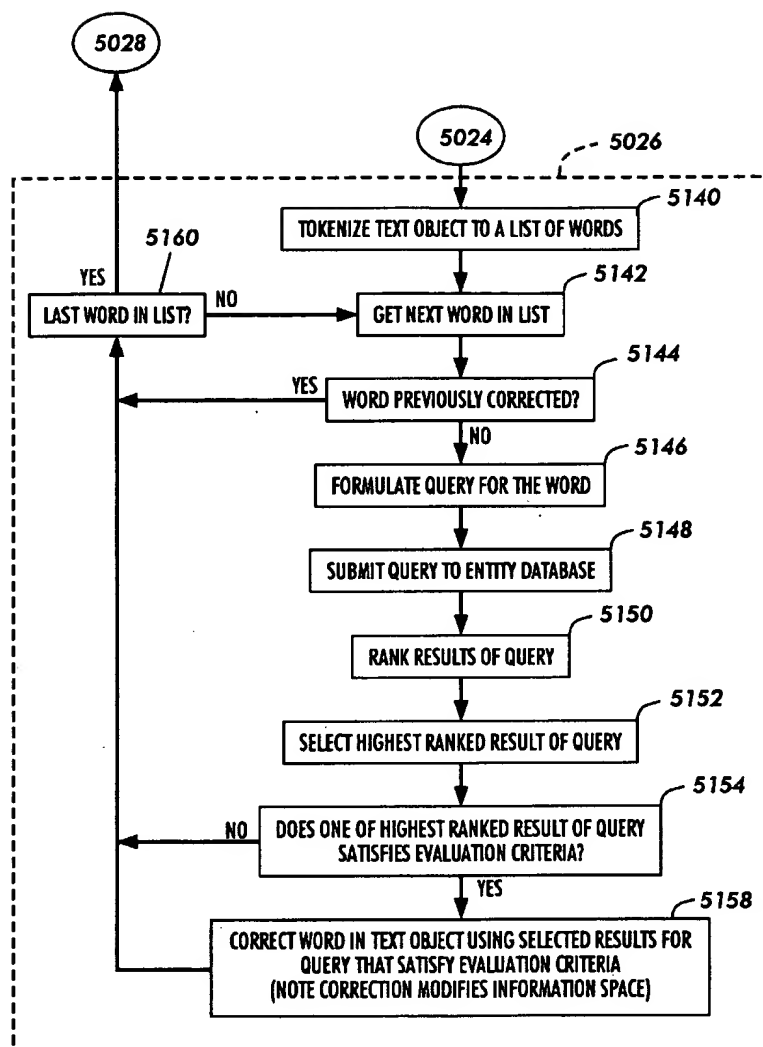


FIG. 51

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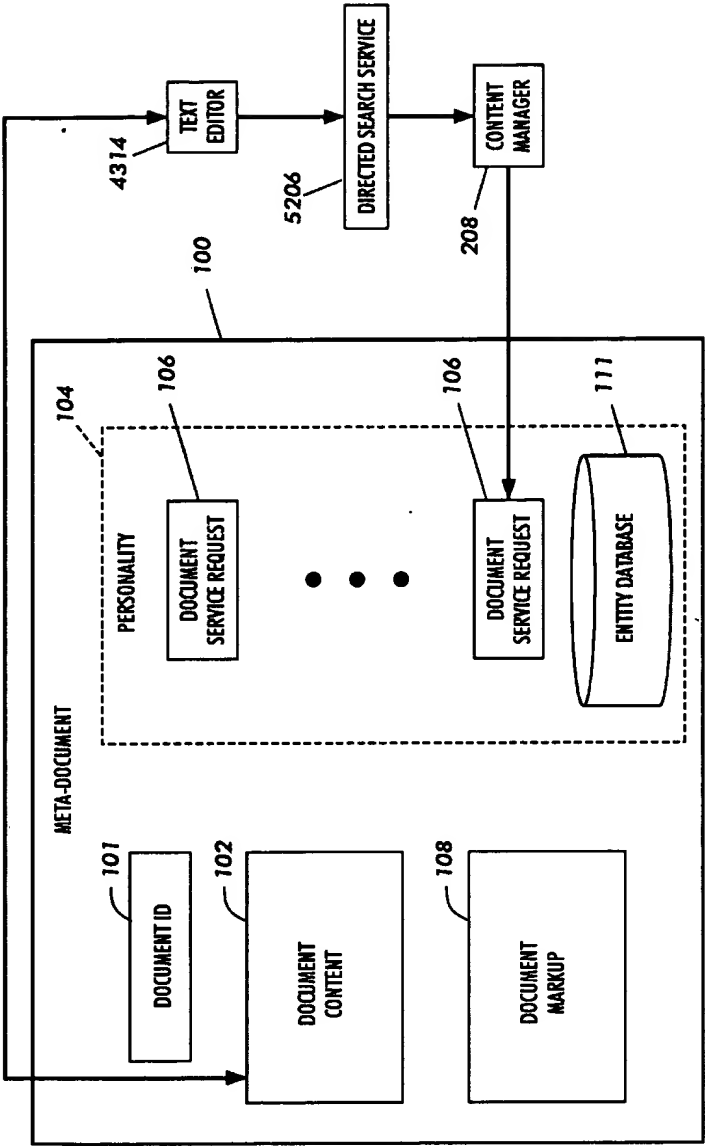


FIG. 52

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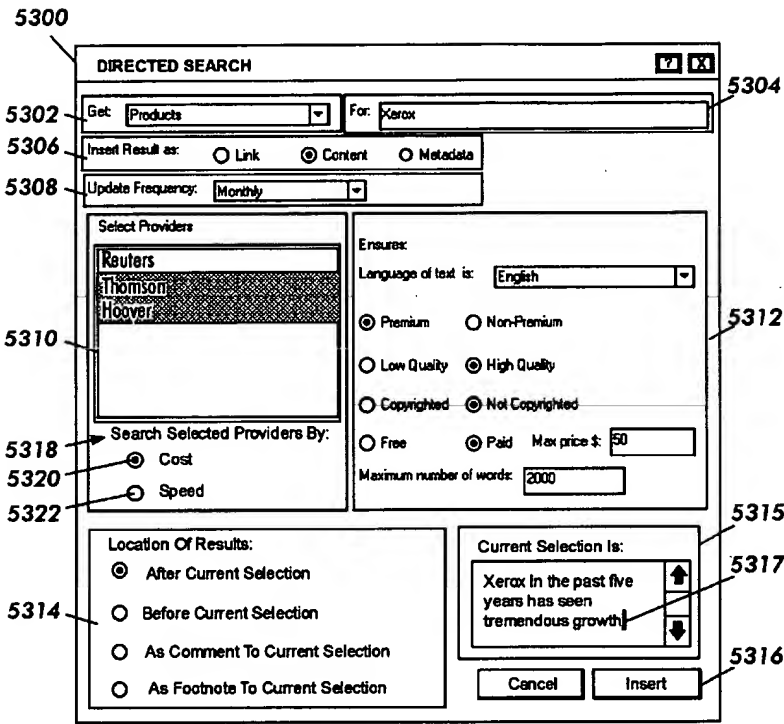


FIG. 53

5300 5302 5304 5306 5308 5310 5312 5314 5315 5316 5317 5318 5320 5322

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5400

```

<service id='Products'
  refresh=30
  insert='Content'
  language='En'
  quality='Premium&High&Not-copyrighted&paid'
  maxprice='50'
  maxwords='2000'
  search='cost'>
  <entity>Xerox
    <offsets>13 18 456 461 710 715</offsets>
    <provider name='Thomson' id=18></provider>
    <provider name='Reuters' id=19></provider>
  </entity>
</service>

```

FIG. 54

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5500

IMPORT/EXPORT [?] [X]

EXPORT NAME: 5502

EXPORT:

- ☒ ORIGINAL DOCUMENT CONTENT
- ☒ DOCUMENT MARKUP (I.E., ENRICHMENT)
- ☒ PERSONALITIES

5504

5506

5508

☐ IMPORT NAME: 5512

IMPORT:

- ☒ ALL CONTENT
- ☐ SELECTED CONTENT ONLY
 - ☐ ORIGINAL DOCUMENT CONTENT
 - ☐ DOCUMENT MARKUP (I.E., ENRICHMENT)
 - ☐ PERSONALITIES

5510

- ☒ BIND UN-MATCHED ELEMENTS

5514

- ☒ ENHANCE BOUND ELEMENTS WITH EXISTING SERVICE PROVIDERS

OK CANCEL

FIG. 55

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```

<!-- SERVER ID>
<docsouls:serverid> DS v1.0 server name </docsouls:serverid>
<!-- PROPERTIES OF DOCUMENT>
  <docsouls:docid> xxx </docsouls:docid>
  <docsouls:name> xxx </docsouls:name>
  <docsouls:owner> xxx </docsouls:owner>
...
<!-- ORIGINAL DOCUMENTS DOCUMENT CONTENT>
<docsouls:originaldoc format="HTML"> toto.html </docsouls:originaldoc>
<docsouls:browsingdoc format="HTML"> browse.html </docsouls:browsingdoc>

<!-- LIST OF PERSONALITIES AND DOCUMENT SERVICE REQUESTS>
<docsouls:endowmentdescription>
  <!-- LIST OF PERSONALITIES>
  <docsouls:personality id = " " name=" " etc.>
    <docsouls:service id=" " name=" " etc.>
      <docsouls:provider name=" " etc.>
        <docsouls:provider name=" " etc.>
      </docsouls:service>
    </docsouls:personality>
  ...
  <!-- LIST OF SERVICE REQUESTS>
  <docsouls:service id=" " name=" " etc.>
    <docsouls:provider name=" " etc.>
      <docsouls:provider name=" " etc.>
    </docsouls:service>
  ...
</docsouls:endowmentdescription>

```

FIG. 56

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```

<!-- DESCRIPTIONS OF PERSONALITIES >
<docsouls:personalitydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields AND service categories>
  <docsouls:servicecategory id="" name = "">
</docsouls:personalitydescription>

<!-- NEXT PERSONALITY DESCRIPTION >
...

<!-- DESCRIPTION OF DOCUMENT SERVICE REQUESTS >
<docsouls:servicedescription>
  <docsouls:id> xx </docsouls:id>
  <!-- list all fields (e.g., "refresh period", category, etc.)>
  <!-- list all providers>
  <docsouls:provider id="" name = "">
  <!-- list all strategies>
  <!-- list status of services (original, frozen, mapped, etc.)>
  <docsouls:servicestatus status="mapped" originalid="" originalserver="">
  <!-- list ServerId if the service was not available on current server>
  <docsouls:serverid>id</docsouls:serverid>
</docsouls:servicedescription>

<!-- NEXT SERVICE REQUESTS DESCRIPTION >
...

```

FIG. 57

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```

<!-- DESCRIPTION OF PROVIDERS >
<docsouls:providerdescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields e.g. key, URL, etc.>
</docsouls:providerdescription >

<!-- DESCRIPTION OF DICTIONARIES >
<docsouls:dictionarydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields, e.g. category>
</docsouls:dictionarydescription>

<!-- DESCRIPTION OF STRATEGY >
<docsouls:strategydescription>
  <docsouls:id> xx </docsouls:id>
  <!--all the fields>
  <!--all the dictionaries>
</docsouls:strategydescription>

<!-- RESULTS OF GLOBAL SERVICES >
<docsouls:globalservice id="Summary">
  <docsouls:link> xxx </docsouls:link>
  <docsouls:content> xxx </docsouls:content>
</docsouls:globalservice>

<!-- OTHER RESULTS (E.G. KEYWORDS, CATEGORIES, ETC.) >

```

FIG. 58A

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```

<!-- (OPTIONAL) DESCRIPTION OF ENRICHMENT PERFORMED AT OTHER DOCUMENT ENRICHMENT
SYSTEMS>
<docsouls:serverid>olderServerId</docsouls:serverid>
<docsouls:personalitydescription>...</docsouls:personalitydescription>
<docsouls:servicedescription>...</docsouls:servicedescription>

<!-- (OPTIONAL) LIST OF RESULTS OF THE LAST ENRICHMENT>
<!-- IDENTIFY DOCUMENT SECTION IN CASE OF MULTI-PART DOC>
<docsouls:docpart>main frame.html</docsouls:docpart>
<!-- OFFSET WHEN ENRICHMENT APPLIES TO A SECTION>
<docsouls:offset> 0 200 </docsouls:offset>
<!-- STATUS OF SERVICE APPLIED ("ACTIVE" OR "FROZEN")>
<docsouls:service id="StockQuote" status="active">
  <!-- ENTITY>
    <docsouls:entity>Xerox
      <!-- NORMALIZED FORM>
        <docsouls:normalized>Xerox</docsouls:normalized>
      <!-- LIST OF OFFSETS WHERE ENTITY IS FOUND IN TEXT RELATIVE TO SECTION>
        <docsouls:offsets start=35 end=40 />
        <docsouls:offsets start=232 end=237 />
      <!-- DICTIONARIES>
        <docsouls:dict> xxx </docsouls:dict>
      <!-- STRATEGIES>
        <docsouls:strat> xxx </docsouls:strat>
      <!-- LINK INFORMATION>
        <docsouls:link> xxx </docsouls:link>
      <!-- CONTENT INFORMATION>
        <docsouls:content> xxx </docsouls:content>
    </docsouls:entity>
  <!-- NEXT ENTITY>
    ...
</docsouls:service>

```

FIG. 58B

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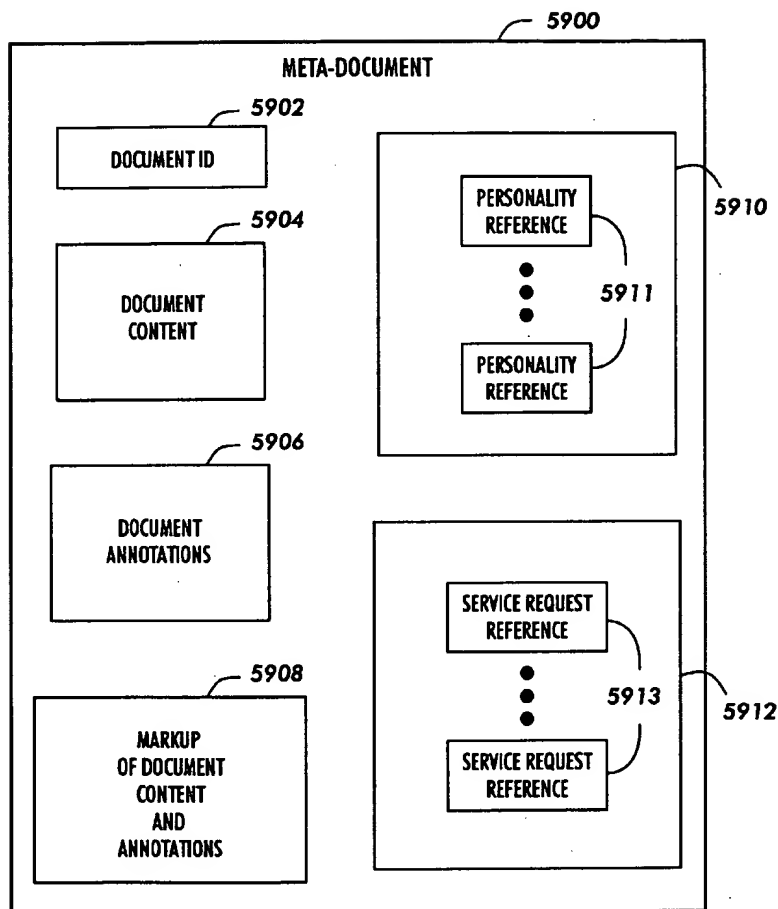


FIG. 59

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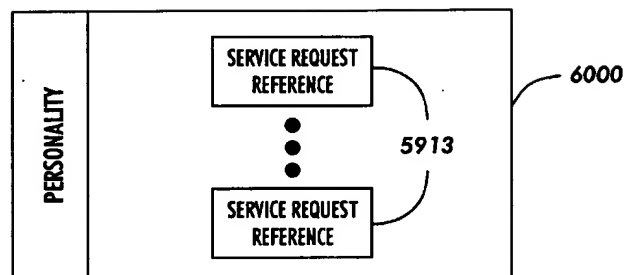


FIG. 60

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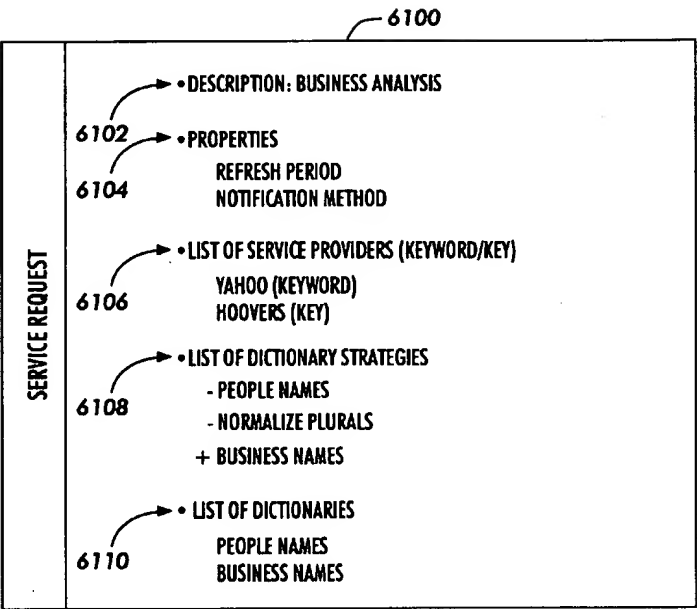


FIG. 61

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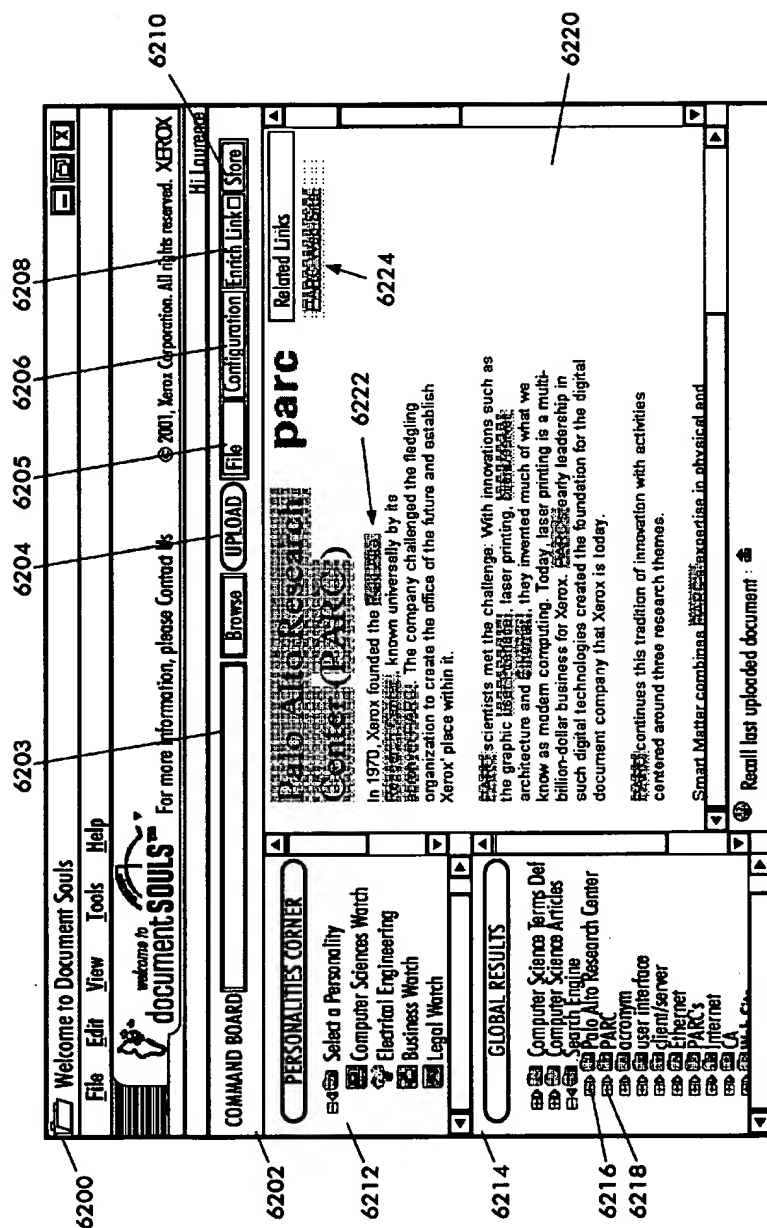


FIG. 62

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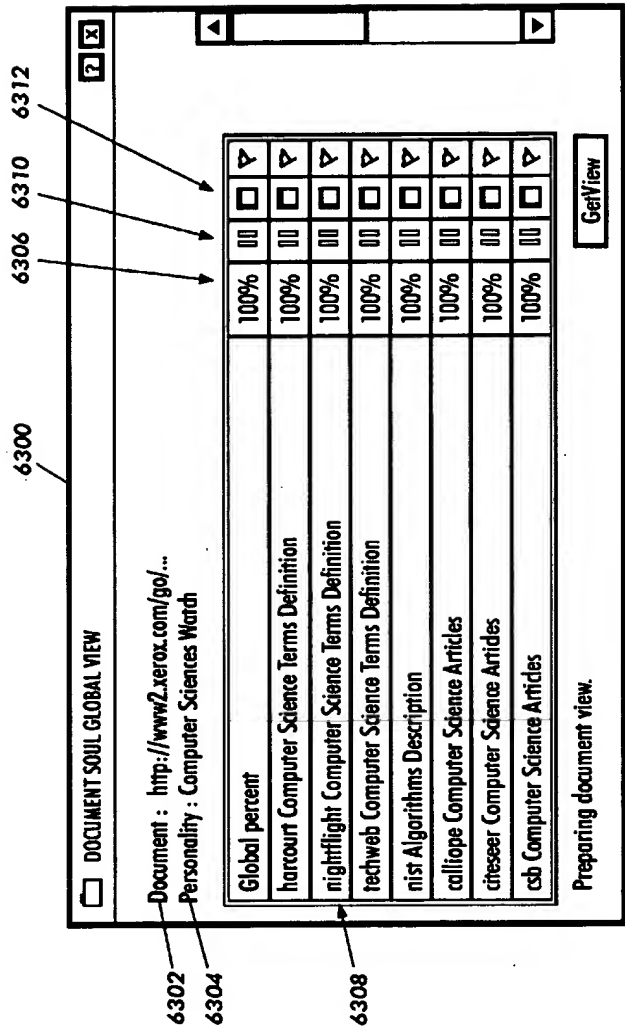


FIG. 63

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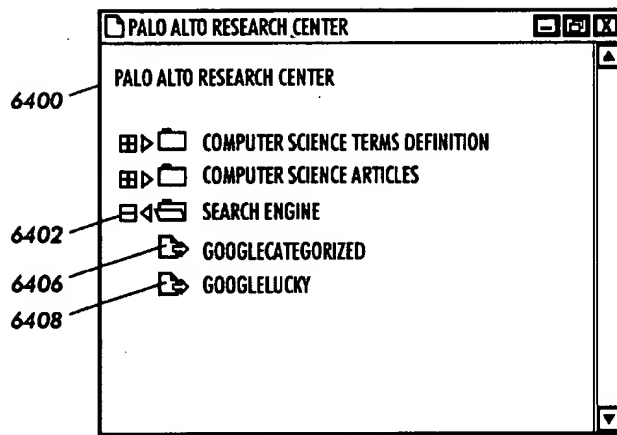


FIG. 64

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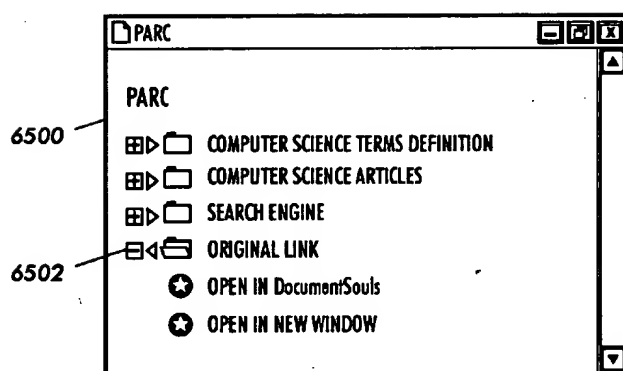
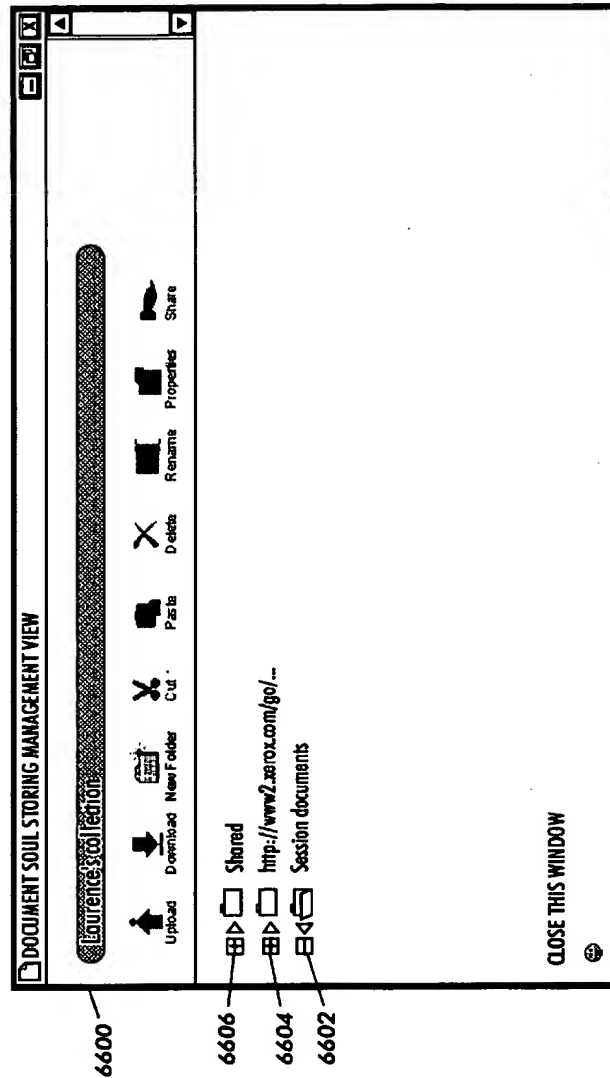


FIG. 65

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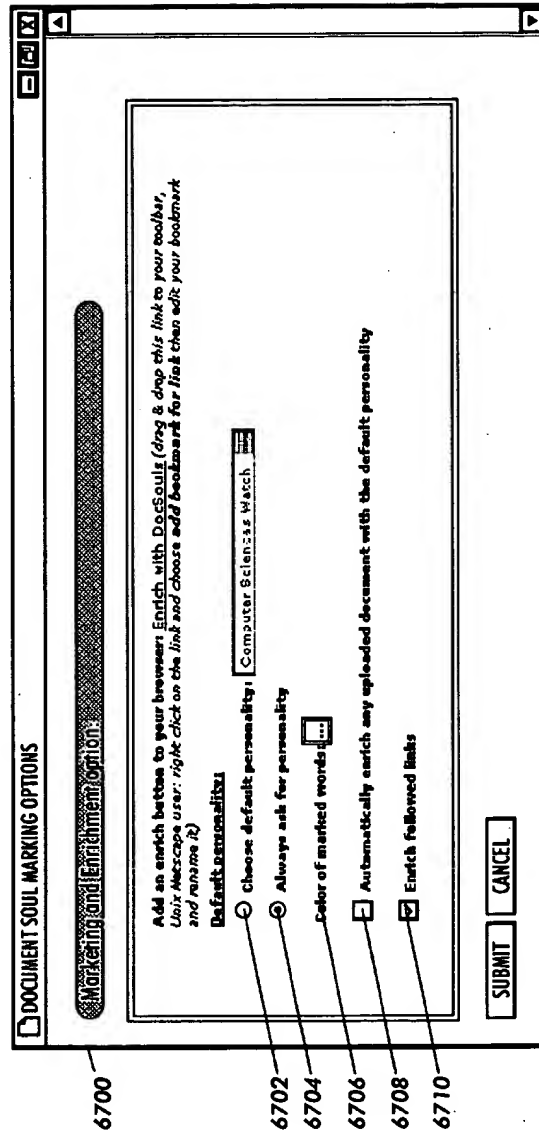


FIG. 67

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